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AMERICAN RIFLEMAN

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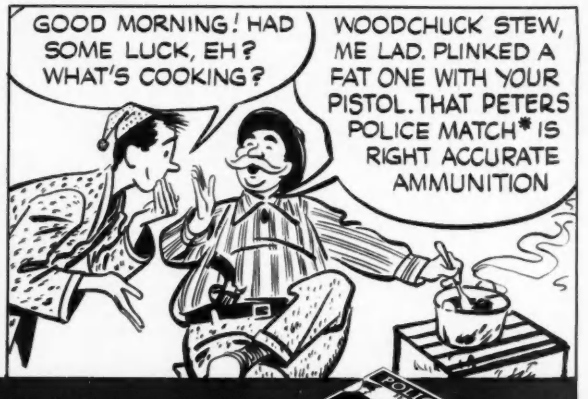
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YANK

Congressional Medal Winners: T/Sgt. Charles Edward Kelly was only a pfc. when he earned the Congressional Medal of Honor by killing some thirty-five Germans single-handedly near Salerno. . . . The main reason for his success, the thing that makes him a live and not a dead hero, is that he has not forgotten the primary business of a soldier: to load, aim, and fire weapons that kill Germans. . . . Kelly tells about a new replacement who turned and asked him, in the heat of the Rapido River action, with Germans only ten yards away, "How do you load this thing?" . . . "This thing" was an M1, the basic weapon of the infantryman. . . . "Make sure they know how to load and fire," says Kelly, now a sergeant, "and we'll teach them the rest."

INFANTRY JOURNAL

The paratroops have wings of silk,
The fighter's wings spout flame.
The doughboy has no wings at all,
But he gets there just the same.

NEWSWEEK

Weapons—Theirs and Ours: The German 88 mm. gun is perhaps unmatched in the world for its coefficient of mobility, accuracy, range, and versatility, and it gave strong service in Italy. But it was the German automatic weapons which most impressed our infantry —these and mines of all descriptions, some plastic. The quick-firing Spandau light machine gun and the Schmeisser automatic pistol were especially good. . . . Our guns were effective individually, true—the Long Tom, or 155 mm. rifled gun, and the 105 mm. self-propelled howitzer in particular—but the Germans usually had something to outrange each of these. . . . Russian officers (suggested that) "we would get better, cheaper, more efficient results, and ease our shipping problem, if we used bigger guns and fewer shells."

COLLIER'S

Invasion, by Quentin Reynolds: We know from experience about the German 88s. They call it the 88 mm. or merely the "Flak 36," because it started life as an antiaircraft weapon. . . . The British Eighth Army first learned of this gun and of the twenty-nine-pound projectile it throws at Knightsbridge, in Libya. Rommel saved it for the big British attack and, when he opened up with it, the 88s knocked off 230 out of 300 British tanks. Its range is 16,000 yards and it fires twenty rounds a minute. . . . These 88s planted in the mountains behind the beaches at Salerno were used with deadly effect. They are now using an improved version of the "Flak 36." When used as an ack-ack gun, its range is 36,000 feet and it has the amazing velocity of 3,200 feet a second. Used as an antitank weapon (its chief purpose in the invasion), its projectile can penetrate six and a half inches of homogeneous armor at 1,000 yards. Our tanks, fine as they are, will suffer severely from the 88s.

ARMY ORDNANCE BULLETIN

Major General G. M. Barnes, Ordnance Technical Division chief, . . . disclosed that when the German 88 mm. guns came into prominence in Tunisia, one was flown from Africa . . . for study and trial. He described it as a good weapon but inferior to our 90 mm. gun, whether for antitank, antiaircraft, or ground-target operations.

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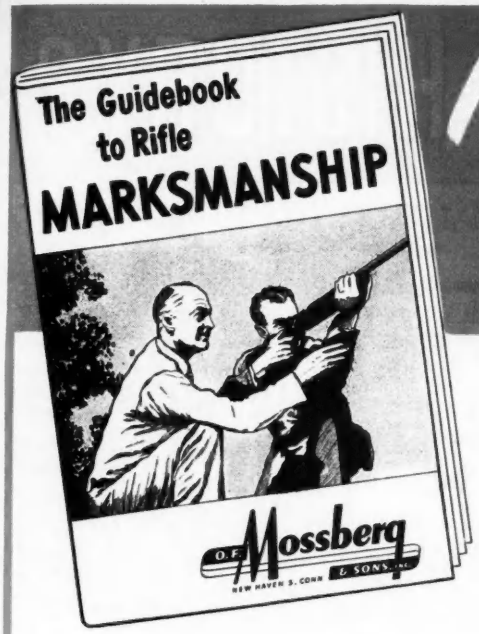

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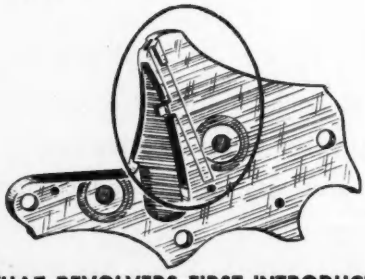
Q: WHAT WAS JESSE JAMES' GUN?

A: Probably during his lifetime Jesse James owned and used many guns, but one that can be definitely traced by affidavits is the 7-inch .45 caliber Smith & Wesson Schofield Revolver bearing serial number 366. On the right side of the frame this gun is marked "Laura," a sweetheart of the famous gunman.



Q: WHAT REVOLVERS FIRST INTRODUCED SIMPLE, ONE-PIECE HAMMER-BLOCK SAFETIES?

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FOR FIRSTS IN FIREARMS

FROM THE PROVING GROUNDS OF TODAY'S BATTLEFIELDS — GREATER GUNS FOR YOU TOMORROW

An Editorial

Task Forces and Perry

THERE was a familiar objection to the National Matches in the fifteen years prior to Pearl Harbor. It was that the tryouts for the Service Teams and subsequent participation in "tune-up" programs and "the Nationals" took officers away from their own organizations "just when they are most needed." Some regimental and division commanders would use every means at their disposal to get rid of an officer who wanted to participate in the National Matches as a match official or member of a Service Team squad.

The error and narrowness of such a viewpoint are now demonstrated in the trials of actual warfare (as the error of numerous other peacetime objections to the National Match idea has also been demonstrated).

Writing in the Command and General Staff School's "Military Review" (April, 1944), Lieutenant Colonel Jay C. Whitehair in an article titled "Introduction to a Task Force" says—"An officer may expect to be placed on a task force staff with officers whom he has never met before. . . ." (Task forces are constantly altered dependent on their mission.) "This means that there is not the background of close association which one may expect in a more permanent organization, as, for example, a division staff, and brings out the need of an officer being prepared to start functioning immediately with officers with perhaps entirely different backgrounds than his own. Needless to say, the ability to meet people and size them up is of paramount importance and the necessity for a friendly attitude is no less important than on any other staff. It is also definitely worth while checking, by whatever means available, into the background of any officers who have special functions with the staff."

Aside from maneuvers employing task forces, there is probably no activity sponsored by the Armed Services in peacetime which affords as good an opportunity for the officers of all branches to learn the personalities, habits, strong points, and weaknesses under pressure of the officers in sister Services as is provided by the weeks of training and competition culminating in the National Team Match. Soldiers, sailors, marines, national guardsmen and reservists, men from many divisions, posts, and stations, brought together by a common interest in shooting, are forced by circumstances at the National Matches and preceding events to learn to adjust themselves to one another, to size up their teammates and their opponents. Solid, enduring friendships are formed which jump all boundaries of Branch and Service. How many precious hours of getting acquainted, of sizing up the other man, would be saved in mobilizing a Task Force Staff if the men on that staff were all Men of Perry!

Even among the best friends of the National Matches and the NRA competitive program, there has been too little realization of the true *breadth* of the constructive values attending these annual events. In this war, as in previous ones, we are relearning forgotten lessons—relearning them, unfortunately, the *hard* way!—C. B. L.

The AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

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C. M. PALMER, JR. *Associate Editors* E. B. MANN
W. F. SHADEL *War* | *Art* J. T. BERRYMAN
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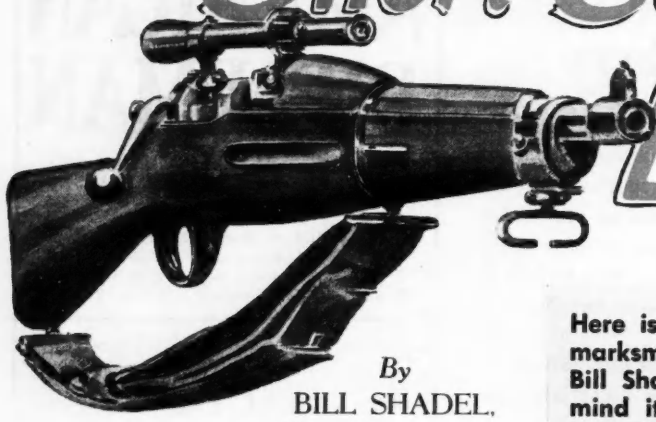
Short Stories about Long Shots



By
BILL SHADEL,
War Correspondent

Here is "the proof of the pudding" of small arms marksmanship. These stories, gleaned in Italy by Bill Shadel and GI correspondents, will make you mind it less next time you miss a double feature in order to teach a class of teen-agers to shoot!

FRECKLE-FACED, REDHEADED PFC. JAMES J. MCGILL, of Philadelphia, had a lot of respect and admiration for his lieutenant. The lieutenant liked him, too. McGill was slight, wiry, a twenty-year-old with a wide grin but already a veteran —and darned good with a rifle; so good, in fact, that the lieutenant had picked him as a sniper.

He knew he'd picked the right man as soon as he placed that scope-sighted '03 in the kid's hands. The kid liked that gun. It was very much like the Springfield he'd used on the club range back home. He'd always wondered what he could do with a gun like that, with a scope. He'd find out, now! This was going to be more like it. Up to now, there'd been plenty of shelling, plenty of being shot at, plenty of shooting, too—but at pretty indefinite targets. The only Jerries McGill had really seen so far were dead ones; and, while that was all right with him, as a sniper maybe things would be different.

The Jerry threw his rifle to his shoulder.

He'd come a long way since those days on the club range. He remembered how pleased his sergeant had been that day, during Basic, when McGill shot 185 for an Expert qualification. Later, he'd joined the 34th as a replacement; a good outfit; the outfit that stormed Hill 609, in Africa, and was now sweating it out in front of Cassino. McGill had learned a lot since joining the 34th. On the way up here to the Gustav Line he'd been out on a number of patrols, learned how to take cover, learned to work as a scout, learned to live in the mud, and to climb mountains, and to eat and sleep under fire. He wasn't a rookie now; he was a GI Joe, seasoned and proved.

They shoved off at dawn, McGill and the lieutenant, along a path just underneath a ridge. McGill was out to the right and above the lieutenant; the rest of the squad were behind and below them. A flock of Jerries loomed out of the mist before them, out of nowhere—a returning patrol, maybe; or a guard of riflemen around a machine-gun nest. . . .

McGill flopped prone, caught the leading Jerry in his scope and fired. Range, 250 yards, guessed. The shot went low, kicking dirt at the German's feet. Shot Number Two was another miss, at nine o'clock. Nuts! Settle down, McGill! Ah-h, that's better! Third shot, a bull! One Jerry down, the others scattering. . . .

But he was on the target now. Another Jerry got it, and another, the last one only nicked. The lieutenant got one, too. Then a machine gun opened up, not at McGill but at the squad. The lieutenant dropped back, hoping to help the squad work its way forward. Out on the flank, McGill waited. . . .

Six hundred yards, about, to that machine-gun nest. Through his scope, McGill could see the Germans crouched around their gun. He took his time. First shot—a hit. Second—he wasn't sure. No time for a third; hell broke loose. McGill hugged the dirt under a hose of machine-gun fire. It was some consolation, though, to see that, while Jerry sprayed him, the squad below was free to move again. They were moving; coming forward in short dashes.

The machine gun fell silent and McGill lifted his head. Jerry was on the run. Jerry didn't like that position so well now! McGill centered his scope on a running shape, squeezed, saw that German teeter, spin, and drop into the gulch below. . . .

He had nine Germans to the credit of the sniper gun when I saw him. Still a kid, still able to grin, but worried; worried because his lieutenant was wounded. "Gee! He's a swell guy!" McGill said. "I hope he gets well. . . ."

Ability to snap a gun to the shoulder and get off a quick aimed shot paid dividends to Pfc. Lloyd R. McCarty, of Salina, Texas. It saved his life, and won him thirty prisoners!

McCarty and Private John Marks, Jr., of San Diego, California, were escorting two prisoners taken by their outfit during the siege of an important height near Cassino. McCarty saw a German behind some bushes. The German threw his rifle to his shoulder. So did McCarty. McCarty won. The German fell, wounded.

The German could walk, so McCarty and Marks herded him into line with their two original prisoners. They moved off. One of the Germans spoke—and two more Germans stepped out, surrendered, fell into line. Every few steps, it happened again! If Privates McCarty and Marks had had further to go, no telling how many prisoners they'd have had! As it was, they checked in at the end of the trip with thirty-two —and one empty cartridge!

* * *

Sergeant Adolph T. Bolker, formerly a tool grinder at Crucible Steel, Harrison, New Jersey, led a patrol into German territory, killed six Germans in a ten-minute skirmish and brought his patrol back without losing a man. Bolker's home is in West Orange, New Jersey. He is now acting first sergeant in an infantry regiment of the 36th Division.

Their mission was to knock out an enemy observation post some 550 yards distant. It took them two hours to get near it. It was night, and every foot of the distance was potentially dangerous. Suddenly, ahead, they caught a glimpse of movement. A German guard in a foxhole a few yards in front of the observation post had lowered his head behind his barricade. One of Bolker's men took aim.

The German stuck his head up—and caught a bullet. Bolker jumped into the hole to search the corpse for possible papers or items of identification. Germans, alarmed by the shot, came running out of the observation post. Bolker's patrol opened up with automatic rifles. Bolker jumped out of the foxhole to take a hand.

"We had good cover," Bolker says. "As the Jerries came out that door, we mowed them down. Eight ran out; five fell. The entire action lasted maybe ten minutes. Then we decided to get out."

Enemy machine gun, machine pistol, and rifle fire followed them, with flares lighting the terrain around them. But each man was trained in the use of cover and no bullet found them.

Sergeant Bolker has been overseas eleven months, saw service in North Africa, and participated in the invasion of Italy.

* * *

The 36th is the "Texas" Division, but scholarly looking young Sergeant Edward F. Nicholls is from Geneva, Illinois. Sergeant Nicholls recently led a four-man patrol on a successful night reconnaissance of one of the most densely fortified sectors of the Gustav Line. He guided his patrol through mine fields and booby traps, between machine-gun nests and enemy outposts—and brought them safely home without a single shot being fired at them!

"We crawled on our bellies for two and a half hours, and that was the most tiring experience I ever had," Sergeant Nicholls said. "We'd feel along the ground for the three-pronged S-Mine detonators, then move forward as far as we'd reached. When I'd find a mine, I'd point it out to the man behind me. He'd locate it for the man behind him, and so on."

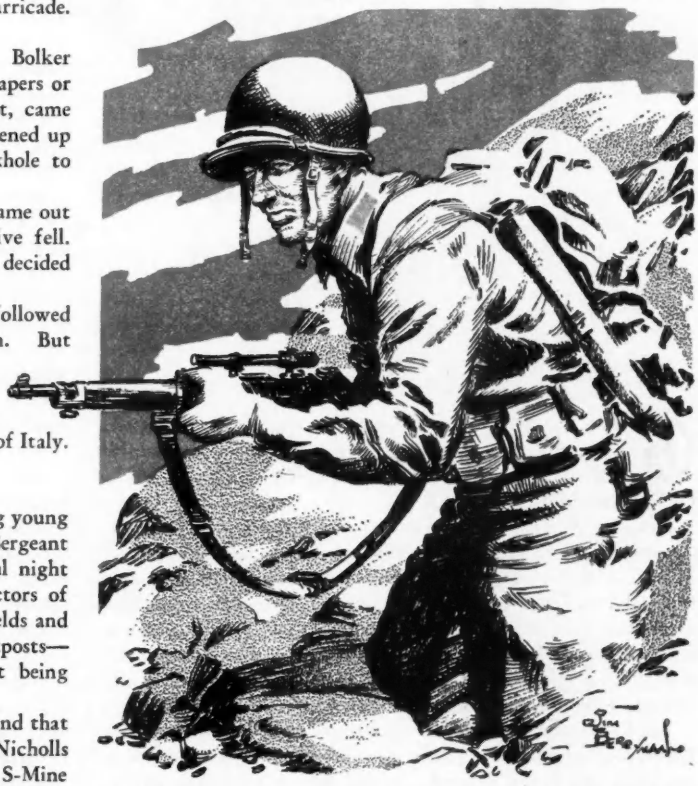
The patrol penetrated to within 300 yards of the Rapido River. Here they heard German outpost guards talking. They located a main supply road which was being used by German tanks and trucks.

Return to their own line was by the same inch-by-inch process. But they made it; and they brought back information of value.

Earlier, Sergeant Nicholls was end man in a daylight patrol in a mountain sector. The leading man was fired upon. Nicholls spotted the German position and fired sixteen armor-piercers from his Garand. "He was in a low dugout," Nicholls says. The dugout caved in. The German had been hit several times. He had a machine pistol in his hands."

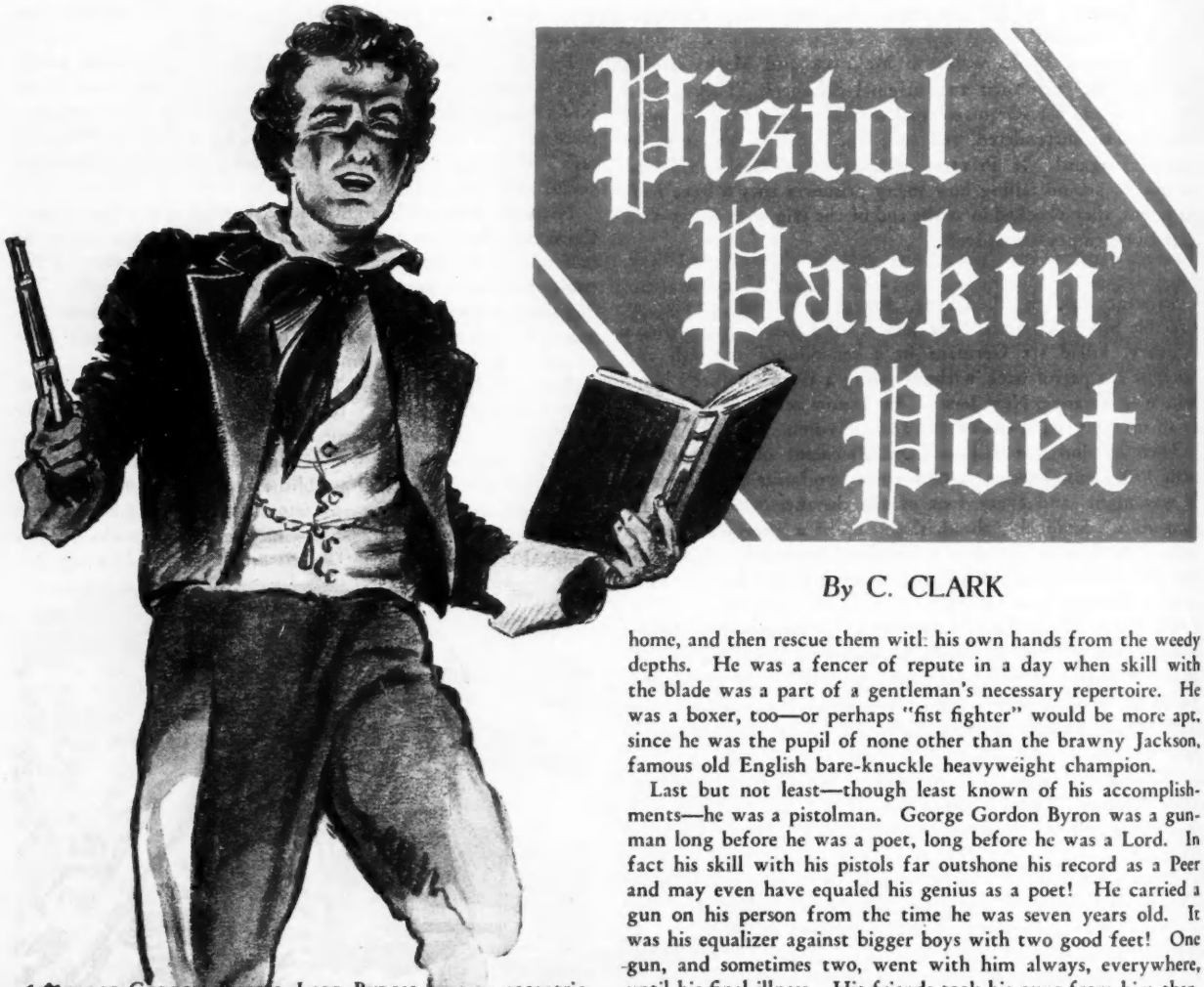
Nicholls' share in the fight on the slopes of 5,000-foot Mount Cairo included duty as an outpost guard. His unit was about half way up the mountain, under close enemy observation. "We could get water, ammunition, and rations only at night. We dug shallow foxholes and, at night, we'd cover them with shelter-halves to keep out rain and cold; but in the morning we'd have to roll them up and get 'em out of sight."

Nicholls fought, too, in "The Battle of the Clouds," on 3,000-foot Mount Sammurcro. It took ten hours for his company to climb the mountain. Some of the way they had to use ropes, scaling 60-degree slopes. A major German counterattack hit them just after they had established their position on top of the mountain. They met that attack with hand grenades, and when the supply of grenades ran short, with rocks. They repulsed the attack and captured fifteen *(Concluded on page 24)*



McGill took his time . . . First shot—a hit, at some six hundred yards!

Almost half a century before our own American West became famous for its gunmen, an English peer—far famed as a lady's man and as a poet—won fame, too, as a two-fisted pistolman. . . . His marksmanship is little known today, and his lusty sins are long since forgotten; but the poetry he wrote will never die. . . . His name was—Byron.



Pistol Packin' Poet

By C. CLARK

GEORGE GORDON BYRON, LORD BYRON, was an eccentric. Born in London in 1788, Byron's boyhood, if not his entire life, was shadowed by an injury received at birth. He had a crippled foot.

Every student of literature knows Byron as one of the brightest stars in the all-time galaxy of poets, author of "Don Juan," "Childe Harold," et cetera. Everyone knows him, too, as a laced and ruffled fop, a dandy, a great lover—menace to husbands and delight of dames—whose mythical "Don Juan" was admittedly a self-portrait, based on his own experiences. He was all those things. He was also one of the rare poets who amassed a fortune from his work.

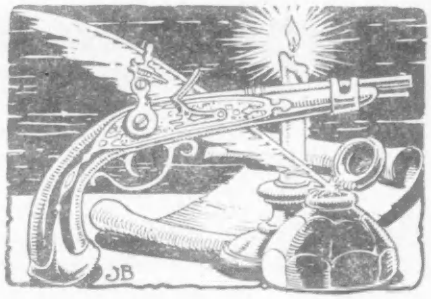
But he was more than that. In spite of his physical handicap, Byron was an athlete. He swam the tide-torn Dardanelles in one hour and thirty minutes. It was one of his foibles to toss his guests into the watery moat around his Newstead Abbey home, and then rescue them with his own hands from the weedy depths. He was a fencer of repute in a day when skill with the blade was a part of a gentleman's necessary repertoire. He was a boxer, too—or perhaps "fist fighter" would be more apt, since he was the pupil of none other than the brawny Jackson, famous old English bare-knuckle heavyweight champion.

Last but not least—though least known of his accomplishments—he was a pistolman. George Gordon Byron was a gunman long before he was a poet, long before he was a Lord. In fact his skill with his pistols far outshone his record as a Peer and may even have equaled his genius as a poet! He carried a gun on his person from the time he was seven years old. It was his equalizer against bigger boys with two good feet! One gun, and sometimes two, went with him always, everywhere, until his final illness. His friends took his guns from him then, lest in delirium or mad caprice, he use them fatally.

Byron's mother was a Scottish Gordon, daughter of a long line of men who, according to historians, lived (and died) violently. William Gordon was drowned. Alexander Gordon was murdered. John Gordon was hanged for murder. Another John Gordon was hanged in 1634 for the assassination of the Bohemian leader, Wallenstein, in the Thirty Years' War.

On the Byron side, too, biographers offer ample justification for George Gordon Byron's eccentricities. The fifth Baron Byron murdered his cousin and, to his dying day, kept the murder sword hanging at his bedside. Converted later to firearms, the old fifth Baron carried two loaded pistols at his belt and is said once to have shot his coachman and placed the corpse inside the carriage beside the horrified fifth Baroness while the old man himself mounted the box and drove the equipage home. Under-

standably, the Baroness departed soon thereafter from the Byron ancestral home—the famous Newstead Abbey on the outskirts of historic Sherwood Forest.



John Byron, grandfather of the poet, served in the British Navy and was known as "Foulweather Jack." His son, "Mad Jack" Byron, married Catherine Gordon to become the father of George Gordon. George was ten years old when the mad old fifth Baron died and was, by that time, the heir to the title. As such, he was taken by his red-haired, vitriolic mother to the ancestral home at Newstead; a home in rack and ruin now, but still manned by servants who filled the boy full of tales of the wild deeds of the fifth Baron. Those tales included, always, the fact that the old man "went always armed, a pistol ready for each hand." That must have seemed no more than natural to George, who, since his seventh year, had done likewise.

George got his schooling at Harrow, famous English boys' school, and later at Cambridge. It was the era of the Regency, of male foppery, of enameled snuff boxes and flowered weskits; the day when an English gentleman was a "two-" or "three-" or "four-bottle man," depending on his capacity for wine.

Byron, by this time, was the owner of many guns. His favorites were a pair of silver-mounted flintlocks, sighted for twenty yards. With them, he entertained his friends in the country by picking off the heads of small flowers, by shooting coins the size of our half dollars and hitting them at sixty feet, and by snuffing candles. He traveled widely and, wherever he went, his pistols went with him. They lay, loaded, beside his bed at night. By day, his pranks with them may well have amused even the ghost of the mad old fifth Baron.

In 1808, the young Lord Byron, at twenty, had finished his education and had installed himself at Newstead. The spacious old banquet hall rang to scenes of revelry as wild as any it had ever seen. It was, by turns, a pistol range! Daily, Byron and his boon companions practiced there, shaking the walls with the blast of their flintlocks. Warned by a servant that some guest, tipsy and unmindful, might walk down the hall into the line of fire, Byron solved the problem with true Byronian *éclat* by purchasing one full-grown bear and one equally fierce wolfhound and chaining one animal at each end of the hall. Whoever got by either beast, he felt, deserved to be shot!

In Greece, where he went as a volunteer to fight with Greek rebels against Turkish dominion, Byron made his headquarters at Missolounghi. Opposite his house stood a Turkish mansion, its turrets decorated with ornaments. Byron made it his daily practice to stand in his doorway of a morning and fire one shot with his pistol at one of those ornaments. The crack of the shot and the crashing of the ornament would bring the inhabitants of the mansion to the balcony where Byron, urbane and smiling, would bow graciously in reply to their (to him) unintelligible protests.

Byron, by this time famed far and near as a lover, was apparently aware of the unfair advantage his combination of pistol prowess with manly beauty gave him over outraged husbands, for he wrote: "I trust I should not return the fire of a man I had injured, though I could not refuse him the pleasure of trying me as a target." Such was the code of the duello.

As a Peer of the Realm, Byron was tainted with a feeling for democracy, a pity for the underdog. His one appearance, seemingly, in the House of Lords was to make a strong, impassioned speech on behalf of Nottingham's underpaid lace weavers.

But Byron at play was fit heir to the Mad Baron. Suitor to Mary Anne Chaworth, great-niece of a man murdered by one of Byron's ancestors, Byron used to gallop past her window and empty his pistols into the (fortunately sturdy) oaken door. Visible to this day are the marks of those bullets. Her parents, so the story goes, smiled indulgently and said, "He's just a Byron. All of these Byrons are dangerous."

The bacchanalian orgies at Newstead went on, coupled with pistol practice and other things. Touched with the macabre, Byron designed black monkish habits for his guests and the halls rocked with the revelries of these black-cowled, candle-lit figures engaged in most un-monkish deeds. They drank often from a human skull which Byron had shaped into a goblet and engraved with his own verse:

"I lived, I loved, I quaffed like thee.
I died. Let earth my bones resign.
Fill up! Thou can'st not injure me.
The worm hath fouler lips than thine."

Byron's poetry had brought him world-wide fame; the fame of his amours was almost as great; but it was his prowess as a pistol shot that topped Byron's own pride in his accomplishments. He told a friend, "There are three things of which I am most proud: I am the only man so far who has published a book of verse which sold seventy-five thousand copies the first day it appeared. I swam the Dardanelles—and I can put out a candle at twenty yards with a pistol bullet without disturbing the candle!"

Lord Byron died April 19th, 1824, at the age of thirty-six. He left an estate of over three-quarters of a million dollars, and his poems will live as long as does the English tongue.

And in the year of his death, in the United States, a ten-year-old boy named Colt went to work in his father's factory in Hartford, Conn. . . .

THE SINGLE-SHOTS

By RALPH C. MORTON

TODAY, WHEN OUR ATTENTION is turned preponderantly to multishot, quick-firing, automatic or semiautomatic weapons, we are prone to forget the merits—still unsurpassed for certain purposes—of the time-tested single-shot rifles.

This was true, too, in the latter decades of the previous century when repeating weapons first came into military and public favor. Magazine weapons, used with deadly effect against unsuspecting Indians, so captured the public fancy that men looked with unqualified disdain on the big, long-range, long-barreled single-shots.

But the single-shots were used then, as they are used now, for jobs requiring long-range accuracy. The big single-shot Sharps was the almost unanimous choice of the buffalo hunters who used them with stunning effect, too, against their Indian enemies. Even the highly specialized target-type rifles—the Sharps, Remington, and Ballard "Creedmoor" Models—played their part in the winning of the West, as one wagon train of the early eighties had cause to remember:

Warned by scouts of the approaching Sioux, the train was "corralled" before the Indians struck. With their wagons drawn end to end in a tight circle, with horses and oxen inside, and with hasty barricades flung up against the outer wheels, they met the charge with spitting guns and saw the enemy veer and swing into the wide, hard-riding circle typical of Indian strategy. The train was strong, well managed, capable of sturdy defense. But the attack had come late in a day's travel, on a waterless plain, where a long siege could have but one ending. The men behind the guns bristling out between the spokes of those wagons knew that, and knew that the Indians knew it, too—for the circle of yelling redskin warriors was wide, offering few targets at anything less than the extreme range of the carbines. The Indians, too, were well led, content to draw fire at long range and wait. . .

Now and then, above the spatter of the short guns a Ballard "Creedmoor" cracked sharply and the grizzled plainsmen grinned through the smoke of black powder, remembering the lean, outlandish figure back of that long, outlandish rifle.

He was a tall man, this Yankee; a professor from one of the Eastern colleges; an actor oddly miscast in this Wild West drama. His gray derby worn primly centered above sharp, scholarly features, his shiny Prince Albert coat and gray trousers, his shoes still carefully polished under their coating of prairie dust—these things, together with his stilted speech, had made him the butt of many jokes. So had his gun. Immoderately long, immoderately heavy, fitted with a spirit level and fancy Vernier sights, the big single-shot Ballard had taken its share of ribbing, too, from men thoroughly sold on the quick-firing carbines.

But the professor's last laugh came soon. The Sioux circle broke and the warriors rode back to a hilltop out of rifle range, where their chief exhorted them. From his sprawling position under one of the wagons, the professor watched that proud, gesticulating figure and his hands tightened on the gun he held. Indians, he had been told, often gave up an attack in which their leader was killed. He had thought of that while the deadly circle of warriors spun around him, but it had been impossible then to pick the leader. One naked, war-painted brave looked just like another. But now—

He checked the spirit level, set his rear peep for five hundred yards. No windage. He squirmed slightly to adjust his position, cocked the set trigger, took a slow, deep breath, and froze. The rifle cracked.

Up on the hill, an Indian orator checked in mid-phrase, one hand up-flung, his figure motionless against the sky. He crumpled then, and fell; and Indian warriors wheeled to stare down at the wisp of black smoke curling from under those far-distant wagons. No earthly gun could reach that far, surely; and the supernatural was not to their liking! Two minutes later not an Indian remained on that hilltop; and beyond it, a fast-moving column of dust told the story of their panic. The battle was over.

Back at the wagon train, the professor flushed red as men crowded around him. "All I did," he insisted, "was to give the gun a chance to do the job she was built to do. I was beginning to fear that you were right, that long-range accuracy was of no value in this sort of business. But I see that there's a place for it—even out here!"

The professor checked his spirit level, set his sights for 500 yards, and squirmed into position.

There's a place for it now, too. Witness the ever-increasing number of ads in current magazines begging for single-shot rifles or actions—not for collectors, but for experienced riflemen, vermin and varmint shooters who demand the ultimate in long-range accuracy.

And for that ultimate in long-range accuracy, the

The Sporting BSA, Martini action, is one of the best of the foreign-made single-shots, popular in England for the lighter, super-accurate loads. The BSA pictured above has Schuetzen-type stock, an engraved receiver, heavy octagon barrel, and set triggers.

Winchester hi-side, thick wall. Note flat-sided receiver which distinguishes this from thin-wall model.

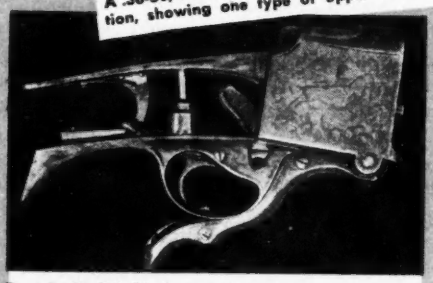
Stevens Model 44, take-down; good for modern conversions involving maximum pressures of 35,000 lbs.

Remington-Hepburn, showing side lever and an extra breechblock. A good action when not over-pressured.

A .40-70 Ballard with floral engraving. This action is comparable in strength to the Stevens Model 44.

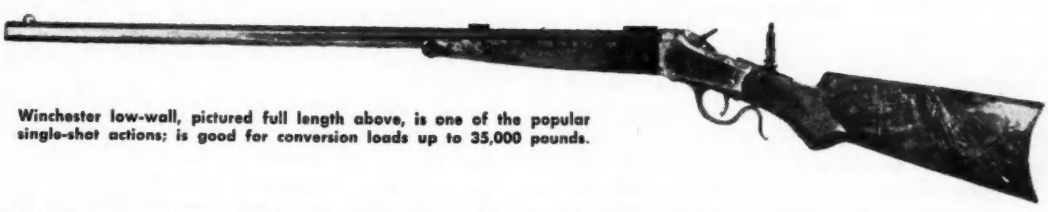
A .38-50, Model 1882, Number 16, Maynard single-action, showing one type of upper finger-lever pivot.

Winchester hi-side, thin wall. Note beveled receiver walls, distinguishing this from thick-wall model.



Tops in English big-bore actions is the Farquharson.

Stevens Model 44½; stronger than the Model 44 above, suitable for conversion loads up to 45,000 pounds.



Winchester low-wall, pictured full length above, is one of the popular single-shot actions; is good for conversion loads up to 35,000 pounds.

good single-shots have never been beaten. Nor have they ever been surpassed for safety, even under the excessive strains placed upon them by modern "wildcat" loads.

True, much has been said and written in favor of the bolt actions as the most accurate and safest of weapons. This is no diatribe against bolt actions; yet bolt actions do blow up on occasion, even with factory ammunition. I have yet to see a good single action exploded, providing the loads were kept within reasonable and readily ascertainable limits. And as for accuracy, the records speak for themselves—as is proved by the demand for single-shot rifles by the inner circle of riflemen to whom accuracy is most important.

No one can estimate the number of single-shots in actual use today, or the number that may yet be secured for conversion purposes. Many riflemen have several. I myself have owned many in years past, and still have on my rack a Stevens, a Sharps-Borchardt, and a Winchester.

Before the war, British firms were still turning out expensive single-shot actions for both light and heavy cartridges. Some of these English actions are very strong and well made. The English Farquharson is popular for heavy cartridges, while for the lighter super-accurate loads the British shooters favor the Sporting B. S. A.

Personally, I doubt if either action is superior in any way to a well-built Winchester high-side single. An extraction method has recently been devised which allows the use of rimless cases in this Winchester Model and I have no doubt that such cartridges as the .257 Roberts, the .270 Winchester, and the "Varminter" wildcat are being or will be tried with this action. If the steel is properly heat treated, I see no mechanical reason why the gun should not handle satisfactorily the pressures involved in these loads. Surely, any trouble that might occur would be due to the quality of the material rather than to any inherent fault in the mechanical conception of the action.

The Remington-Hepburn and Sharps-Borchardt falling-block actions, too, are strongly supported back of the slots in which they slide by solid shoulders of steel. Each of these actions has some highly desirable features, although their camming actions are not as powerful as that of the Winchester.

In spite of criticism to the contrary, the Stevens 44½ action is very strong. Years ago, Stevens chambered barrels for some powerful cartridges in guns using this action. It is in use today, converted to handle many of the wildcat vermin loads.

From the late sixties to the early nineties the single-shot rifles reigned supreme on the target range and were the last word in big-game sporting weapons where the demand was for long-range accuracy and high stopping power. There were the Hopkins & Allen, the Ballards, the Stevens, the Remington-Hepburns, the Sharps-Borchardts, the Winchesters, and many others long since forgotten. Prices for such guns then seem ridiculously low to us today, but those were the days of low prices. When Teddy Roosevelt was in the White House, a Winchester low-side single-shot carbine cost fourteen dollars and fifty cents. (It stood up under the hammering of the .44 Winchester Center Fire; I see no reason why it should not be perfectly safe for the factory Bees, Hornets, and similar stingarees today.) The Standard Winchester Single-shot, with thirty-inch octagon barrel, cost fifteen dollars. With a fancy French Walnut stock, pistol grip and forearm all nicely checkered, it listed at thirty dollars. Add mid-range Vernier and wind-gauge sights and a nickel-plated butt plate and the price jumped to forty-five dollars. And if you were one of the high-hat gentry, wanting nothing but the best, you could get this rifle with all of the above plus a Schuetzen-type stock and butt plate, a double-set trigger, a spur finger lever, and a beautiful palm rest for sixty-five dollars. Today, such guns will cost you far, far more!

Above: a .219 Zipper built on the popular Sharps-Borchardt action. Below: Remington Rolling Block rifle, with a rear sight mount, used for firing from the old supine position.

Yet those were first-class guns capable of fine performance in expert hands. The single-shot riflemen of that day wanted one-inch-per-hundred-yards groups. With such guns, fitted with heavy barrels and properly adjusted triggers and close chambering and breeching, such groups were possible with handloads, in spite of the fact that components then available were inferior to those in use today.

Today, with the advent of the Hornet and its big brother, the Lovell, there has come a renewed demand for single-shot rifles and actions. Some years ago, Sedgley bought the balance of the manufacturer's stock of Winchester single-shots, and today, attics and barns, cellars and closets are being searched for old single-shots suitable for conversion for the varmint loads.

And no wonder! For these rebuilt single-shots can shoot! With their delicate triggers, honed actions, heavy barrels, modern sights, and modern high-speed ammunition, they are surpassed by nothing in the rifle field for accuracy. They are equaled only by the very best and most expensive bolt actions. Vermin shooting seldom requires the speedy second or third shot, which is the sole advantage of the repeating actions. In fact, better shooting might result if shooters learned to make that first shot kill, instead of depending on a quick second or third shot to do the business. For such use, the single-shot, with its super first-shot accuracy, is all that is needed.

In choosing such an action for conversion, weigh the various types against the pressures to which they are to be subjected. For purposes of comparison, let us divide the modern "speed" loads arbitrarily into three classes: *(Continued on page 30)*

HAVE WE FORGOTTEN MIDRANGES?

By CHARLES L. HENNIG

THE ORIGINAL AND REAL PURPOSE of reloading has almost faded into oblivion, all but forgotten except by a few of us who still get joy from low-cost hulls. Today, the idea seems to be that reloading is only for the home production of super-duper, wildcat loads which the factories do not or will not handle. This is screwy! Reloading provides low-power, midrange loads for all popular calibers; loads with which, in years past, we did nine-tenths of our shooting. These loads have all the power and accuracy needed, and they give us the low-cost practice we need, which many of us could not otherwise afford.

During the past fifteen years, I have made somewhere in the vicinity of 75,000 rounds of such ammunition for rifles and revolvers. All of these were made for and fired over midranges. And all but a very few thousand were made up with the aid of the simple, but time-honored tong-type tool. Except for bullet moulds, the only other tool I owned was the Ideal sizer and lubricator. For this I usually had a variety of dies and nose punches for about six or eight calibers.

Had I known, when I started reloading for my own pleasure, that such simple tools were considered by many shooters in the same relative category with the two-cylinder, chain-drive flivver, I probably would have been discouraged and never would have experienced the joy of "rolling my own" ammunition.

Too many shooters have made the lowly art of reloading a rich man's pastime. Today, if the novice inquires about reloading, it's ten to one that he will be told about bench-types, straight-line tools, powder measures, sensitive scales, gang moulds, electric pots, and what else have you that costs too much. "Yes, the cheap tong tool is still made, but that's a relic of the old black-powder days. Dip measures for modern powders? Horrors, no! Not if value your neck!" Does said novice go in for reloading after such a sales talk? Mebbe, once in a thousand times!

What he *should* be told is this: that about ten dollars worth of simple tools can bring him all the joys of reloading, provide almost unlimited shooting at astonishingly low cost, and make him thoroughly master of his rifle or revolver. This is the real purpose and object of reloading and merits encouragement. He should also be told that he can get all the essential information on reloading from one small two-bit Technical Bulletin No. 106, published by NRA, or from the time-tried Ideal Handbook, the standard for reloaders for generations, selling for only a half buck. With these basic texts, reloading is easy.

CONGRESSIONAL MEDAL OF HONOR

Everybody knows about Pearl Harbor, but less has been said about Kaneohe Bay, across the steep spine of Oahu, where, on that same fateful December Sunday morning, the Japs struck at the Navy seaplane base. . . . It was there that Lieutenant (j.g.) John Finn, USN, an NRA Life Member since 1935, won the highest award this country gives for heroism. His citation reads:

"For extraordinary heroism, distinguished service, and devotion above and beyond the call of duty (in that) during the first attack by Japanese planes, he promptly secured and manned a .50 calibre machine gun mounted on an instruction stand in a completely exposed section of the parking ramp, which was under heavy enemy machine gun strafing fire. Although painfully wounded many times he continued to man this gun and to return the enemy's fire vigorously and with telling effect through the enemy strafing and bombing attacks and with complete disregard for his own personal safety. It was only by specific orders that he was persuaded to leave his post and seek medical attention. Following first aid treatment, although obviously suffering much pain and moving with great difficulty, he returned to the squadron area and actively supervised the rearming of returning planes. His extraordinary heroism and conduct in this action are in keeping with the highest traditions of the Naval service."

Some of my favorite loads included the 86-grain gas-check bullet for the .250-3000 Savage Model 20; the Krag 165-grain, round-nose, plain-base bullet; and the Remington slide action .32-20 with the plain-base, 115-grain bullet. All of these were loaded to about 1,400 or 1,500 foot-seconds velocity. Except after several firings, it was never necessary to neck-size either the .30-40 Krag or the .250 with such loads. The thin case of the .32-20, however, had to be both neck-sized and crimped. No full-length case sizing was ever necessary.

My pet handgun calibers were the .38 Special, the .32 S. & W. Long, and the .44 Special; and with these the tong tools gave long and faithful service. I never bothered to size the necks of these cases either.

The bullet-sizing holes of the early Model Ideal tools, as everyone knows, were not too good. But a dollar and six-bits invested in a bullet-sizing chamber to fit these tools enabled them to do a job unsurpassed by bench tools.

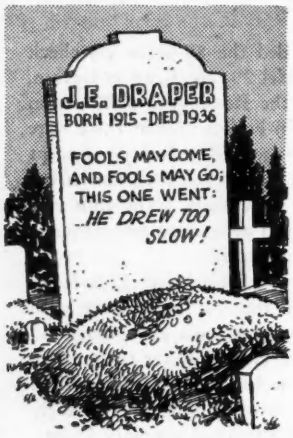
Bulk smokeless powder was always used in these midrange loads, and it was always measured out by the old dip powder measures. After many years of loading by such primitive means, the Dope Bag of THE RIFLEMAN described a powder measure made out of a water cock. Following the description given in this article, I converted one of these water cocks into a very successful powder measure with which I have measured more thousands of loads than I can remember. It really works.

With the shooter who must have super-speed, high-power loads and all the high-speed tools to turn them out, I have no quarrel whatsoever. More power to him! I finally graduated to a Pacific bench tool myself and I've turned out faster work, reloads which dropped into the chamber like brand new ones. But I've never found any particular increase in their accuracy which could be attributed to full-length or neck-sizing.

But there are thousands of good guns stacked in closets and dresser drawers and other out-of-the-way places which could afford no end of pleasure if their owners would take advantage of reloading for midrange shooting. Teach the tyro in this field the value of the low-cost outfits first and let him graduate to the production-line outfits after he has served his apprenticeship with the simpler tools. Show him that he can have a whale of a lot of good shooting fun *with his present guns*, plus just a few bucks worth of tong tools—and be a better marksman, a better hunter, than he could ever have afforded to be before—and you'll be spreading a worth-while shooting gospel that will recruit new members to the shooting game.

Training Combat Pistolmen

By MAJOR REX APPLEGATE



Major Rex Applegate is the author of that unpleasant-sounding but authoritative book on hand-to-hand fighting, "Kill or Get Killed," of which the Infantry Journal said, "Kill or Get Killed *stands at the top of the very small group of books useful to the American soldier on close combat methods." . . . At present, Major Applegate is engaged in the training of highly specialized combat personnel.*

IN THIS WAR, contrary to many predictions, there has been a reversion to close-quarter combat. In street and house-to-house fighting, in the jungles, in the mountains, on night patrols, wherever men come face to face in battle, the handgun can be a decisive offensive weapon.

But *target*-shooting skill alone is not enough to make the all-around combat shot with the handgun. After the target phase has been developed and the necessary familiarity with the weapon attained, the handgun user must develop a battlefield technique; which involves speed and the ability to use the gun from any position, with or without the aid of sights, under all light and terrain conditions. For the soldier who can handle his weapon quickly and accurately under all conditions, and under the physical and mental stress of combat, stands a much better chance of survival than does the untrained or partially trained shooter.

To develop this skill, a special type of training is needed: a type of training whereby the average man can be taught quickly to use his pistol to kill an enemy swiftly and instinctively, with or without the use of sights, at distances up to fifty feet.

Opinions differ as to the best methods of attaining this all-around combat proficiency with the handgun. The method discussed here has been used to instruct large groups of men in close-quarter combat firing, and men so trained have used it successfully against our enemies. After such training as this, they attain more confidence in themselves and in their weapon and in their ability to use their pistol in man-to-man combat under all battle conditions.

We begin our course in combat pistol training by pointing out these three facts about the use of the pistol in combat:

First: Ordinarily, in battle, due to bad light, lack of time, pressure of enemy fire, etc., the pistol shooter will not usually be able to use sights.

But any man can raise his hand, forefinger extended, and point accurately at an object. Add the gun to the hand, the barrel being merely an extension of the forefinger, and, with a reasonable amount of practice, the same thing can be done with a pistol. That is what we call shooting by "instinctive pointing."

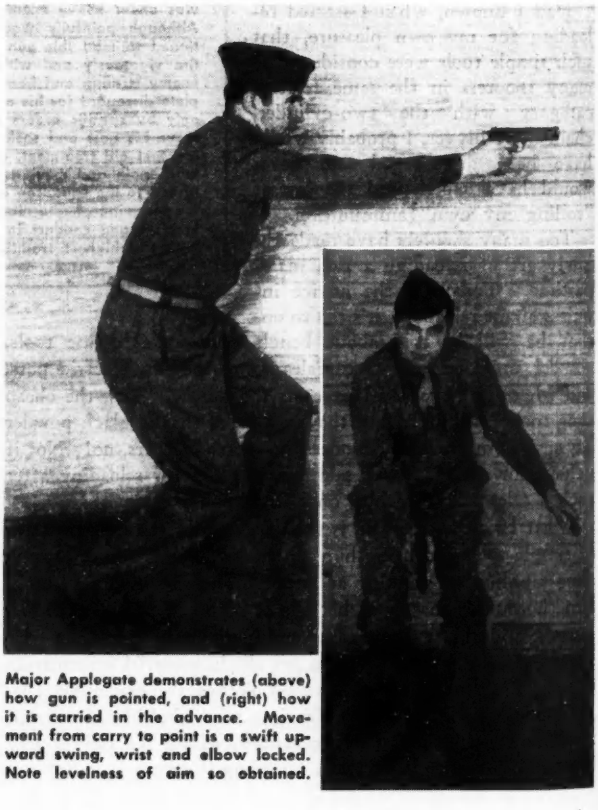
Second: When in combat or subject to enemy fire, the natural, instinctive position is a crouch.

Since this is the position men will normally assume in combat, it is the position we teach in combat training. Although this crouch will be instinctively assumed in combat, shooters must be made to use it during training. The crouch should be natural, knees flexed, body bent aggressively forward from hips, feet in natural position ready for forward movement.

Third: The muscles and nerves of a man in combat are tense. Therefore, his grip on a weapon is extremely tight.

Since his grip will be tight, convulsive, under battle firing conditions, the shooter must be made to use a tight grip in training. This is important because a tight grip has a decided effect on the pointing characteristics of his weapon.

When the official Government Issue .45 Automatic is gripped tightly, as it will be in combat, its structural design tends to cause the muzzle to point at an angle below the horizontal when it is thrust forward at a target. (Grip the Colt .45 *tightly*, close the eyes and thrust it forward *hard* from the Raise Pistol to a straight-arm position and note how the muzzle tends to point low.) This tendency can be overcome by: (1) fitting the pistol with an adaptor that will alter its



Major Applegate demonstrates (above) how gun is pointed, and (right) how it is carried in the advance. Movement from carry to point is a swift upward swing, wrist and elbow locked. Note levelness of aim so obtained.

pointing characteristics, (2) training the soldier to cock his wrist slightly upward to compensate for the down-pointing tendency of the weapon, or (3) training the shooter in such a way that he avoids the forward-thrusting movements which accentuate a downward-pointing tendency inherent in many weapons, the .45 automatic in particular.

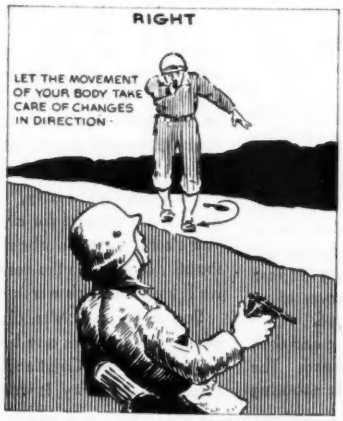
It is this writer's opinion that the third solution is the best one. The method of combat pistol training described here is based on that assumption.

The soldier in combat will ordinarily have his weapon in his hand when he expects to use it; therefore, the recommended ready or carrying position is as follows: gun arm held straight, wrist and elbow both locked, the arm slanting forward and down at about a forty-five degree angle, with the gun arm swung in slightly toward the center of the body and the gun hand flexed slightly to the right to point the gun straight forward from the body center in the direction of movement.

Naturally this does not mean that when the weapon is carried by the shooter in the recommended ready position it will always be carried with a convulsive grip and the arm rigidly extended. It will ordinarily be carried with the arm and hand relaxed, the elbow slightly flexed, but in all cases the arm and elbow should be well out in front of the shooter. From this natural relaxed carrying position it is very easy to assume the straight-arm locked-wrist position prior to or during raising the weapon for firing. This will be done naturally by the shooter and no special emphasis will have to be placed on it after initial training.

From this ready position, the shooter, facing his target, lifts the gun up, wrist and elbow still locked, the arm pivoting at the shoulder, until the weapon is at eye level. The gun is fired as it comes between the shooter's eyes and the target—good accuracy results. He will "shoot where he looks," and in the direction his body is pointing.

To shoot at a target not directly to the front, the shooter wheels to face that target, pointing with his body and swinging his gun up as he pivots. So long as the same relationship is maintained between the gun, the center of the shooter's body, and his eyes, accuracy will result. The body will do the pointing. Practice will enable the shooter to combine the necessary movements of turning and swinging the gun up, and he will soon be able to fire accurately in any direction without a prohibitive amount of dry work and practice. Slight variations in technique are allowable to compensate for individual physical characteristics, et cetera; but we insist that all shooters conform to the basic principles involved: i. e., "body pointing" (facing the target) instead of swinging the arm to point at an off-side target; and bringing the gun up to eye level in front of the body instead of "shooting from the hip." We believe that swinging the arm independently of the body to shoot at angle targets reduces accuracy because shots are apt to be fired too soon or too late, before or after the gun has traversed the exact degree of the arc required to bring it to bear on the target.



Shooting by instinctive pointing

This article is offered as a part of the overall picture of American military training. The methods and opinions advanced are the writer's own and do not necessarily reflect NRA opinion. . . . It's being done—therefore, it's news.

is not "hip shooting." In "hip shooting" the wrist, forearm, or elbow is held against the side of the body at waist level when firing. We believe that this method, or any variation of it in which the arm is not fully extended, requires a prohibitive amount of practice; that it is awkward and impractical to shoot from any hip position when in a crouch, and that the best solution is to shoot with the arm fully extended. This technique will not require excessive practice and will make the average pistol shooter more adaptable to changing conditions in combat.

Training Methods

(1) Point out differences between target and combat shooting; how time and terrain conditions affect the combat shooter.

(2) Demonstrate and explain various methods of combat shooting, and demonstrate why this method is used in preference to others.

(3) Define "instinctive pointing," and make each man convince himself of its effectiveness by pointing his finger quickly at a target, then sighting along the finger to see that it actually covers the target.

(4) Stress safety. Impress upon the shooter that he must check the weapon not only for safety but because his own life may depend, in battle, on being sure whether or not the piece is loaded. (One effective method of developing habits of safety is with a paddle! Get a paddle similar to those used in college fraternity houses and make it a rule that any man who handles the piece carelessly will have that paddle used on his anatomy by the person endangered.)

Even a brave man sometimes reacts badly the first time he faces enemy fire. If the first such experience is against the enemy, he may be killed before his reflexes or his training can overcome his initial reaction to fire directed at him. Because of this it is now a generally accepted training practice to give the recruit his baptism of fire from friendly guns. This cushions the initial shock of battle. To do this, we line the men up against the butts and have instructors using pistols fire into the butts, aiming a foot or so to one side or above them, from a distance of about ten feet. This takes some of the edge off that first experience under fire and, also, convinces the men beyond all doubt of the necessity and importance of the training they are about to receive in shooting without taking time to sight.

Small toy guns shooting wooden darts fitted with rubber suction cups, or small BB pistols, are effective training aids, permitting actual combat firing at live, shooting-back targets, and enabling men to practice, too, before full-length mirrors in which they can observe their own errors.

Actual practice begins with empty guns, with the student placed some six feet from and facing his coach. Have him assume the crouch, gun held in the ready position. Have him move forward,

the coach backing away before him. See that he remains in the crouch as he moves and that he moves naturally. From this basic position, have him spend some fifteen minutes raising his arm to point. Be sure wrist and elbow are locked, the grip tight. Practice this pointing movement first from the halt, then in combination with the crouching advance.

Repeat, having the student advance and wheel to point at a target ninety degrees (or more, or less) to his right or left. Stop any tendency to swing the arm without turning the body. Avoid any fixed method of foot movement, insisting that the man turn naturally, swiftly, fitting his foot movement to existing conditions of terrain or position. In combat, there may be times when he won't be able to move his feet at all; but the body can still be twisted to face the target, with effective results.

Next, repeat the practice with the student wheeling to fire at targets directly behind him.

The question of what to do with the free hand will certainly arise. It should be used for maintaining balance, should not be held in any fixed position. In combat, it may be used for carrying another weapon, such as a grenade.

After not less than three hours of dry practice, students are permitted to fire live cartridges at three-quarter silhouette targets. Point of aim on such targets is the mid-section. This allows considerable latitude for shots high, low, or to either side; and body hits produce major psychological as well as physical effects. It is desirable to have the targets so hung that they will be the same height as an actual antagonist.

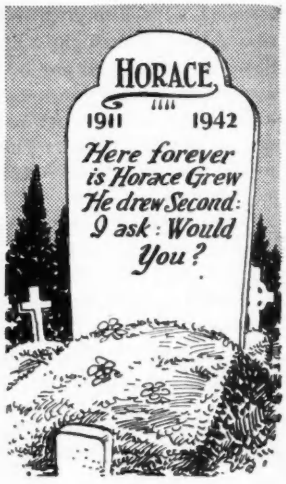
During dry runs and in actual firing, we train men to shoot in bursts of two shots. Such two-shot bursts (taken care of by recoil) usually result in hits eight to ten inches apart, on approximately the same level. This gives a greater hitting factor. Always return the gun to the ready position between bursts, then raise the gun to fire the next burst.

When the shooter has mastered his first firing lesson and is consistently placing his two-shot groups in the center ten inches of the target, move him back a few yards. This increase of range must be gradual, and consistent hits in the center of the target must be made before moving further back. At forty feet, groups coverable by the spread of two hands are satisfactory.

After the frontal firing is mastered, move back to the eight-foot range and start firing from right and left angles, wheeling to face the target for each burst. Here, again, distance is increased as proficiency improves.

Stress aggressiveness. Although men are taught to stop to shoot, they must go forward between shots. Advancing demoralizes the enemy and, at the same time, strengthens the shooter's own morale. Retreat has the opposite effect.

After basic training along these lines is completed advanced work is offered. Two or more silhouettes eight or ten feet apart; targets in various degrees of light, targets popping up out of cover, from behind corners, over walls, out of windows, targets uphill and down, running targets—all these provide additional stages in the education of the combat shooter. The shooter should be trained, also, to advance and shoot over rough terrain; to work out various tactical problems; to shoot at sound, in complete darkness, and to move instantly away from his own gun flash under such conditions. He should learn to shoot with either hand, in case one hand or the other is incapacitated in battle. He should practice endlessly until he can reload his weapon swiftly, under all conditions.



In a word, the advanced shooter can be developed along many lines, as time permits and as the ingenuity and imagination of his instructor dictate. The whole object of combat shooting, with this as with all other weapons, is to kill your enemy before he kills you. Any training that improves an American soldier's ability to do that should be used!

Our Fourth of July Cover for 1944

U. S. Army Photo

Subject of this month's cover picture is Sergeant Donald P. Hamilton wearing the flag shoulder patch of the invading U. S. soldier; the insignia identifying American troops in all of their foreign invasions.

Sergeant Hamilton wore this patch himself on two occasions: once at the Vittoria landing, in Sicily, and again at the Salerno landing on the Italian mainland. An Oklahoma farm boy, Hamilton has been an expert with guns since he could remember; but at daybreak of July 10, 1943, in a Sicilian grape arbor, he had to use his rifle in a manner new to him. Face to face with a lunging German bayonet, Hamilton parried the attack and, with all the power of his Africa-toughened 173 pounds, drove his own bayonet home.

A moment later, he centered his Garand sights on first one and then a second Nazi who were firing at other members of his squad. The range was short. Remembering his .22 caliber small-game shooting in Oklahoma, Hamilton figured he couldn't miss. He didn't. He got them both, with two shots.

In July, elsewhere in Sicily, Hamilton was hit in the shoulder and again in the right thumb. After a brief hospitalization, he returned to duty in time for the Salerno landing and fought with his outfit up to the Volturno River where, during that epic battle of September 29th, he was again wounded, this time by a shell fragment in his thigh. That "blighty" brought him back to the states, to an assignment to duty at Headquarters, Army Ground Forces, Washington, D. C.

"In Sicily and in Italy," Hamilton says, "there were plenty of times when I was grateful for my boyhood training with rifle and shotgun. There's no question about it—every American kid should learn to shoot! It pays, in the service—and in civilian life, too, in the sport we'll have after this war is over."

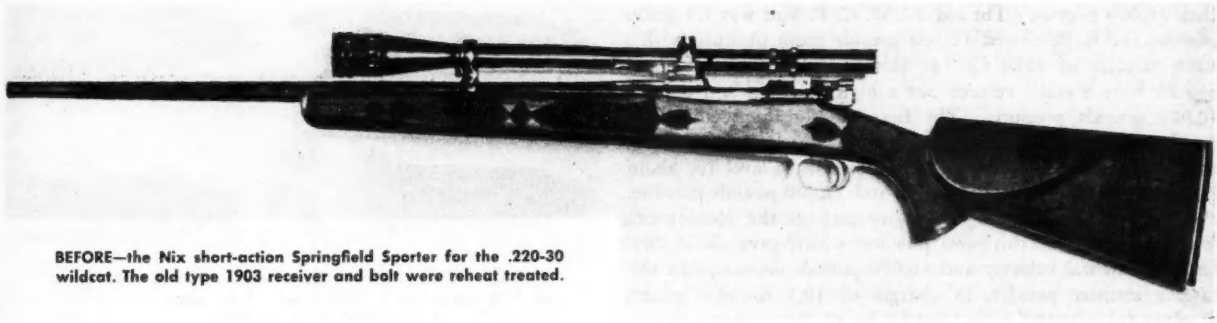
Son of Mr. and Mrs. Grover Hamilton, of Beggs, Oklahoma, Sergeant Hamilton has one brother, David, in the Army Air Corps, and another brother, Courtland, with the Navy Seabees in the South Pacific. His wife, Fay, is working in a bomber plant in Tulsa.

Pressures Should Be Considered

By F. C. NESS

IN RIFLE CARTRIDGES, mighty forces are wrapped in little packages and it might be well for little men with big ideas to pause and consider the potentialities involved before they attempt to boost maximum standard loads.

We are inclined to think in terms of velocity alone, disregarding pressures until obvious danger signs force our attention to them. We strive earnestly to develop a potent driving force behind our bullets and disregard the fact that we are building up a potent bursting force at the same time. Gas pressure forces our bullet out of the barrel and on its way and it must be high for high velocity. The same high pressure causes pierced primers, ruptured cases, and, sometimes, wrecked guns. But we are prone to overlook that pertinent fact because we are blinded by our enthusiasm for our shining goal, the flatter trajectory obtainable by higher velocity.



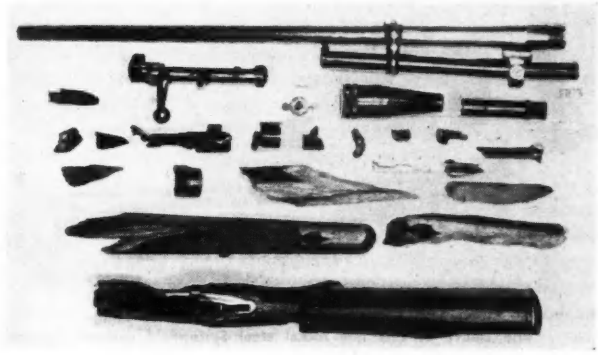
BEFORE—the Nix short-action Springfield Sporter for the .220-30 wildcat. The old type 1903 receiver and bolt were reheat treated.

Most of us would prefer to use a smaller cartridge for a given job of ballistics. If, in a more compact load, we can give the same bullet the same velocity with five grains less powder, we are very happy about it. For a certain bracket of ballistics, twelve grains of the propellent in the Kilbourn Hornet equals seventeen grains in the .22-3000 Lovell. Likewise, seventeen grains of powder in the 2R Lovell gives the same velocity as twenty-three grains in the .219 Zipper; the differential being as great as ten grains in another comparison with a heavier bullet. We use strong, properly-breeched, falling-block actions, and discount the cost of an occasional ruptured case or broken web and pierced primer, because we are saving from five to ten grains of powder per shot. We grow wildly enthusiastic over the potency of these compact little loads and are amazed by their remarkable efficiency—but we do not pause to weigh the ballistic price we are paying in the matter of pressures. We could not honestly admire them so much if we knew that the pressure cost of these "amazingly efficient" loads was above 60,000, sometimes up to 70,000 pounds!

The pressure cost must be considered in any fair comparison. In interior ballistics, efficiency is measured by the ratio of velocity to pressure, not by velocity alone. There is a lot of interest in chronographs or velocity-recording devices among contemporary gunsmith experimenters, and not enough interest in pressure-recording equipment. Although closely related, the pressure information is far more important than the velocity figures. A reduction of pressures without velocity loss would be real accomplishment and a more worthy objective for any experimenter than the boosting of velocity at the cost of higher pressures. The adoption of such an objective might reverse our current trend of employing dense loads in reduced cases. The important thing, either way, is to become pressure conscious and always consider pressure cost in evaluating any load.

More ballistic operations have been performed upon the popular .22 center fire than on any other caliber. Let us look at a few representative examples of these miniature bores. The .22 H.P. Savage holds about 2.4 grams of city tap water at 70° F. and has a capacity, for bullet seat and powder and air space, of about .147 cubic inch altogether. With a given powder, thirty grains gave an instrumental velocity of 3175 f.s. to a 35- and a 40-grain bullet, and 3025 f.s. to a 55-grain bullet. However, for the three bullets, the respective pressures ran 35,700, 40,400, and 45,400 pounds per square inch. Another propellent of the same general type, but slower, was tried behind the 55-grain bullet in a charge four grains lighter. The pressure fell off more than 20,000 pounds and the velocity was just under 2200 f.s.

AFTER—the same rifle after choking on twenty-nine grains of number 4198 powder, three grains over the normal maximum.

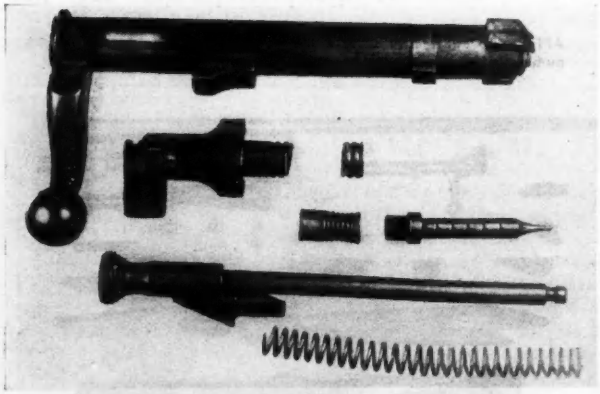


With a different type of powder, finer and quicker in burning rate, a twelve-grain charge gave the standard 70-grain bullet about 2,050 f.s., with a pressure level of about 22,000 pounds.

This same load gave a 53-grain lead bullet 2170 f.s. at 18,400 pounds pressure. The 45-grain Hornet bullet was given about 2345 f.s. (old standard Hornet ballistics) at only about 18,000 pounds pressure. Behind this latter bullet the charge was progressively increased. Thirteen grains raised pressures to 19,500 pounds and the velocity to 2485 f.s. Fourteen grains gave about 2625 f.s. (standard Hornet velocity) at only about 22,000 pounds pressure. At the full Hornet pressure level of 40,000 pounds, eighteen grains gave the 45-grain bullet 3250 f.s. At this pressure level the standard 70-grain bullet was given 2700 f.s., the load being nearly seventeen grains of the same powder. Throughout, note the pressure ratio.

The old .22 W.C.F. and the .22 Hornet have about the same capacity, and this varies a little in different makes according to the thickness of the brass. The total capacity ranges from about .058 to .0595 cubic inch. With a 45-grain bullet used throughout, the pressure range of different standard loads in these cases runs from less than 12,000 pounds to a little less than 50,000 pounds. The old .22 W. C. F. load was 5.8 grains powder and it developed 11,500 pounds mean pressure with a mean velocity of 1560 f.s. In this case, 4.4 grains of pistol powder have a small volume but a high potential and develop 40,000 pounds pressure. The heaviest load of regular rifle powder we have recorded is 10.9 grains, which gave 2690 f.s. and 48,600 pounds pressure. The old Hornet level for about 9.5 grains of powder was 2300 f.s. and 35,000 pounds pressure. An early experimental high-velocity load in the Hornet case was 10.5 grains of this same powder, which gave about 2600 f.s. instrumental velocity and 40,000 pounds pressure. In this case, a canister powder, in charges of 10.3 to 10.4 grains, develops from 2605 f.s. to 2640 f.s. at 42,000 pounds pressure.

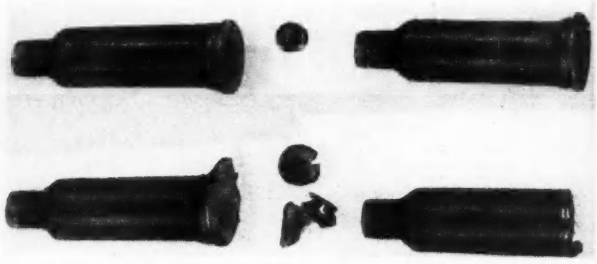
As already noted, this same powder, with the same bullet and seating depth in the bigger .22 H.P. Savage case, develops this same velocity at 20,000 pounds less pressure with 3.6 grains more powder. The difference is in loading density, the big case holding 2.40 grams of water against only .95 gram for the



Twenty-nine grains of 4198 broke the extractor flange and sleeve of this fine nickel steel Springfield action.

Hornet case. With 35-grain and 40-grain bullets the Hornet gives over 3,000 f.s. and 2850 f.s., respectively, at 42,000 pounds pressure. The bigger H.P. Savage case attains the same thing at 32,000 to 35,000 pounds pressure with 6.0 to 6.5 grains greater load of the same powder. The Hornet case can drive the heavy 55-grain bullet at nearly 2350 f.s. with the same maximum pressure of 42,000 pounds, but the bigger case can give it 3025 f.s. at 45,400 pounds. That is a matter of buying 700 f.s. at a cost of less than 3500 pounds, or 200 f.s. per thousand pounds of pressure, in the bigger .22 H. P. Savage case.

For noting the pressure-and-velocity relationship in steps, in the lower brackets, with the same powder, the .25-21 Stevens offers a fair example. Its capacity lies between that of the .22 Hornet and the .22 H.P. Savage, and its 75-grain bullet, analogous to a 60-grain .22 bullet, lies between the 45-grain and 70-grain bullets of the other two cartridges. A six-grain charge develops 1205 f.s. at 9,100 pounds pressure. Eight grains give 1453 f.s. at 11,800 pounds. Ten grains up the velocity to 1764 f.s. and the pressure to 15,200 pounds. Eleven grains make 1899 f.s. and 21,500 pounds pressure. Twelve grains give 2061 f.s. and 26,300 pounds. Thirteen grains make it 2175 f.s. and 30,200 pounds, which is the top of the low-pressure field. It will be noted that, in the beginning, velocity



Overloads wrecked these .220-30 cases. Twenty-eight grains of 4198 expanded the solid heads of the upper pair of Swift cases. Twenty-nine grains blew out those of the lower pair.

increases were obtained at a low cost in pressures, or 250 f.s. at 2700 pounds and 310 f.s. at 3400 pounds. At the end, 115 f.s. cost far more, or 3900 pounds of additional pressure.

The capacity of the old .22-3000 Lovell, .218 Bee, and Improved Bee are the same. Although individual cases vary in capacity, each group we tried of these three calibers held an average of 1.32 grams of water, level full. The standard Bee develops about 2850 f.s. and 40,000 pounds pressure with a 46-grain bullet. The old .22-3000 Lovell was chronographed up to 3350 f.s. with this bullet, at unknown pressures, which probably were pretty high. We have always judged that our pet loads in this case developed fully 50,000 pounds pressure, and they may have been considerably higher in extreme loads. The same may be true of the converted sharp-shoulder Bee, but no data are available.

The 2R Lovell has a slightly greater capacity. It holds about .03 gram more water, which amounts to .001 cubic inch more powder room. This little case, with 16.5 to 17 grains of powder, develops 3300 f.s. with 45-grain bullets, 3200 f.s. with 50-grain bullets, and 3000 f.s. with 55-grain bullets. But the pressure cost is great, being above 60,000 pounds in some instances. Superbly strong actions must be closely breeched or these cases rupture near the head, and primer pockets swell. Ignition also must be mechanically correct or pierced primers will result from the firing of heavy loads. Even so, the web of these relatively weak .25-20 S.S. cases let go occasionally.

These same high-pressure ills afflict the Maximum Lovell, an enlargement of the same case, which holds a grain more powder than the 2R Lovell. This one holds more than eighteen grains of powder and it is regularly loaded to capacity. It holds .10

gram more water than the 2R Lovell and 18.3 grains of powder level full, which, apparently, drives the 50-grain bullet at nearly 3400 f.s. and the 55-grain bullet at fully 3200 f.s. The pressure cost is unknown, but it is probably unwarrantably high for the slight gain in velocity. This is also relatively true of other enlarged Lovell-type cases, some of which hold as much as 20 grains of powder. In this general category we have the enlarged Hornet of Kilbourn type which holds .10 gram more water than the regular Hornet and has .005 cubic inches greater capacity. Its chronographed velocities are in the same bracket as those of the old .22-3000 Lovell, or as high as 3000 f.s. with the 50-grain bullet. However, such extreme loads have indicated pressures as high as 70,000 pounds, and above, in limited laboratory investigations.

The standard .219 Zipper delivers a 56-grain bullet at the muzzle with a speed of about 3100 f.s., and a 45-grain bullet at about 3400 f.s., with pressures just above 40,000 pounds. It holds 2.27 grams of water and has a capacity of about .139 cubic inch. The .22 Niedner Magnum, on the .25-35 Winchester case, has a capacity about .005 cubic inch under that of the .219 Zipper. With the 55-grain bullet, velocities of 3000 f.s. to 3300 f.s. can be developed at pressures ranging from 40,000 to 50,000 pounds, according to Sharpe's table, and with powder loads ranging from 26 to 29 grains. However, with only 18 grains of the quick-burning powder used in comparing the .22 H.P. Savage and the Hornet, the 55-grain bullet is given less than 2850 f.s. at a pressure cost of 52,000 pounds. The lower pressure figures quoted above for this cartridge may have been optimistically calculated or estimated before they were passed along to Mr. Sharpe.

The squat .220-30 wildcat, or shortened .220 Swift, worked out by Al Barr and Carl Nix to hold 30 grains of No. 4320 level full, has a capacity .006 cubic inch under that of the .22 H.P. Savage or .002 cubic inch over that of the .219 Zipper. It holds 2.30 grams of water, or .03 gram more than the latter and .10 gram less than the former. It also holds 28 grains of No. 3031 and 26 grains of No. 4198 level full. These loads appear to give the 55-grain bullet above 3500 f.s. and probably a full 3600 f.s. The pressure cost is unknown but probably pretty high. These particular loads have given no trouble even when slightly compressed in seating the bullet. Also, they have been finely accurate. The drop and trajectory up to 400 yards have equaled those of the Winchester 55-grain pointed S.P. bullet and load in the .220 Swift, whose muzzle velocity is quoted at 3720 f.s.

Heavier experimental loads have given some trouble as well as indications of extremely high pressures. A grain increase in the load of No. 4198 began to show signs of mounting pressure, and two grains left a pressure ring on the strong and heavy head of the .220 Swift case. Through an incautious omission of checking a load by weight, Carl tried Al's method of simply sifting his case full of No. 4198 powder. Inadvertently, there had been an error in resizing these particular cases and they took 29 grains, or three over the normal full load. When he fired that load from bench rest Carl touched off some high-pressure fireworks. His beautiful Springfield sporter blew up in his face, shattering the receiver completely and wrecking the action. Fortunately, he was only scratched. We are all glad it was not Barr's .220-30 Bull Pup which was being subjected to the strains of that terrific blast. The cuts show Carl's sporter before and after the blowup as a lesson in high pressures.

The picture of the shattered rifle shows a pretty thorough job of disintegration. Even the Litschert scope came apart at its most vulnerable point, but without damage to the lenses. The mounts and barrel alone escaped destruction. This rifle was a little beauty with checkered stock and highly polished metal parts, none of which were spared by the explosion. It is incredible, but Carl escaped serious injury; only a few slight cuts. Had it been a Bull Pup he might have lost his head. The reheat-treated receiver shattered like an old brittle casehardened Springfield does, in fragments. This action had been cut and welded. The weld held and proved to be the toughest part of it. Sample pieces were tested and found to be very hard, with a Rockwell figure above fifty. The old Springfield steel is a carbon-manganese alloy containing at least 1 per cent of manganese and must be heat-treated to a hardness of .52 Rockwell for adequate strength. The heat treatment of this welded receiver was a standard job by R. F. Sedgley, Inc., which firm has heat-treated hundreds, if not thousands, of old Springfield receivers made of this same steel and with never a failure called to our attention. At the same time, Sedgley heat-treated Barr's duplicate shortened action and another Springfield action for Bill Corson. We have acquired the latter from Bill after the accident, and Al is continuing to use his own on his .220-30 Bull Pup. However, he checks case capacity and loads.

To investigate the potency of these overloads the same barrel was fitted to a modern Springfield action of nickel steel. Carl had two rounds left of the five he had inadvertently overloaded. Before these were tried, other overloads of 27 and 28 grains of No. 4198 were fired first, all with a string of ample length. The lighter of these showed high pressures by shedding its primer, while 28 grains expanded the head of the case more and showed a pressure ring on the solid head. This was the first case to stick in the .220-30 chamber with any load. Al has never had any extraction trouble even with a case filled to the mouth with this powder (26 grains) and compressed by the 55-grain bullet. Then Carl's two remaining loads (found to be 29 grains) were tried and both blew out their bases and smeared the bolt with fluid brass. This broke the extractor flange and the threaded part of the cocking piece sleeve. Otherwise the strong nickel-steel action remained intact and undamaged. Those three progressive overloads probably developed from 80,000 to well over 100,000 pounds pressure, although a grain less powder gave no customary "signs."

No. 4198 powder is not used for regular loads in the .220-30 case. It was used only experimentally and found to be the densest load which could be safely used in case-full amounts (26 grains weight) behind the 55-grain bullet. No. 4320 powder, for which the case capacity was determined, makes a less dense load of the same volume (30 grains weight) as an additional grain forced in does not appreciably increase pressures. No. 3031 powder is the one regularly used as a working load in the same volume (28 grains weight) and this gives the 55-grain bullet 3600 f.s. at pressures probably above standard but apparently safe for the gun in the hands of an experienced and careful reloader.

As a comment on the probable pressures, I might point out that the .22 H.P. Savage case similarly loaded, with this same powder and bullet, develops just over 3000 f.s. at 45,000 pounds pressure. Those additional 600 f.s. must be purchased at the cost of greater pressure. Until the mean pressure has been determined we cannot know that cost or compare the efficiency of the .220-30 with that of the conventional .22 H.P. Savage.

Japanese Small Arms

By CAPT. JOHN S. DIEFENDORF

WHEN THE JAPS, aided and abetted by Yank fighting men, departed this world from the Island of Attu and other Aleutians to join their ancestors, they left behind a lot of equipment which we have now had time to study.

As in many other operations, the Japs here used the well-known caliber .25 (6.5 mm.) Meiji Model 38 rifle, also known as the Arisaka. (This rifle was described briefly in the February, 1941, issue of THE RIFLEMAN by Lt. John Scofield.) They also used the newer Model 99 in caliber 7.7 mm.

In the Japanese Army the Model 38 (38th Year of the Meiji Era) rifle, caliber 6.5 mm., has been standard since 1905. This is a Mauser-type bolt-action rifle cocking on the forward thrust of the bolt. The cocking piece on the end of the bolt has been eliminated and a large, flat, knurled knob has been substituted. The safety is incorporated in this knob. To set the safety the knob is pushed in with the thumb and given a forty-five degree turn to the right. The bolt is removed by pulling out a Mauser-type bolt-stop similar to that on the Enfield Rifle M1917. A steel cover fits over the bolt handle and slides back and forth with the bolt in grooves in the receiver. This cover is effective in keeping out rain, wet, and foreign material.

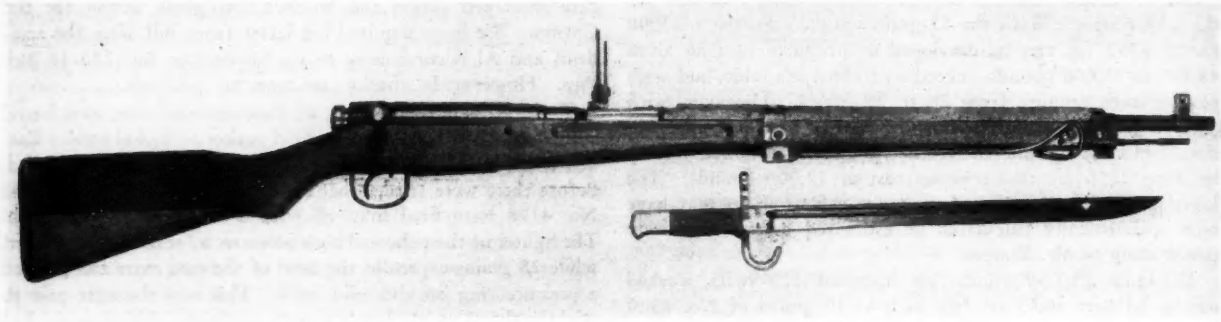
The magazine, holding five cartridges, has a floor plate which can be removed by pushing a small release located inside the trigger guard just in front of the trigger.

The rear sight is a rigid leaf sight, graduated from 500 to 2400 meters, but with no provision for windage or drift. The slide has an open V notch for sighting. The front sight is twenty-seven inches forward of the rear sight and is merely a sharp inverted V with two small ears on either side as guards. This sight is definitely not conducive to accurate shooting. A twenty-nine-and-a-quarter-inch steel cleaning rod is located in a slot under the barrel. One end of this rod is threaded to receive an eight-inch extension to which may be screwed a brass cleaning patch holder.

The varnished stock is similar in shape to the A-3 stock for the M1903 Springfield. However, the butt is made of two pieces of wood, dovetailed together. All metal parts are blued except the bolt which is polished bright. A short model of this rifle has also been issued which is identical with the Model 38 rifle except the barrel is approximately twelve inches shorter.

Found here also and rarely encountered before this operation was the Model 99 (Japanese calendar year 2599) rifle of 7.7 mm. or .303 caliber. This rifle, quite similar to the Model 38, was found in considerable quantity and is obviously a mass-production item. All parts not subject to stress, such as the floor plate, butt plate, bolt cover, swivels, bands, and follower, are stampings. The bolt action is exactly the same but not as smooth in operation as on the 6.5 mm. Model 38 rifle. This rifle has a twenty-four-inch barrel and is shortened to forty-four inches total length. Rifling is the same as in the Model 38.

The rear sight is a rigid leaf sight with no provision for windage or drift. The leaf is graduated from 300 to 1500 meters and is equipped with a peep. Attached to the slide on the rear sight



Japanese Model 38 rifle, 6.5 mm., weight nine pounds, length four feet two inches. Barrel is 31.4" long, rifled with four lands, four grooves. Twist is right, pitch about one turn in ten inches. Bayonet has fifteen-inch blade, also fits Model 99 rifle and Models 96 and 99 machine guns.

are two arms which can be unfolded outward on each side to a horizontal position. On the underside of each of these arms are two V notches numbered two and three, located one and seven-sixteenths and two and three-eighths inches respectively on each side from the center of the peep. These arms are used when firing at aircraft. The front sight is the same as that of the Model 38 and is twenty-one and a half inches forward of the rear sight. Attached to the front band is a wire stand normally carried folded back. When unfolded it supports the rifle eleven inches high; too high for prone firing.

The floor plate is hinged and is released in the same manner as on the Model 38. The sling is one and seven-sixteenths inches wide and is made of a rubber composition similar to three-ply belting. Attached to the left side of the rifle, it is adjusted by means of a steel buckle and, as on the Model 38, it is used only for carrying the rifle.

Extensive use was made here of a comparatively new type of light machine rifle issued in both 6.5 mm. (Model 96) and 7.7 mm. (Model 99) calibers. This gun is basically patterned after the French Hotchkiss air-cooled machine gun, with such features as magazine feeding, sights, and stock copied from the British Bren Gun. It weighs slightly over twenty pounds and is forty-two inches long. Gas operated, it has a cyclic rate of fire of approximately 550 rounds per minute, firing full automatic only. The magazine holds thirty rounds and

feeds from the top of the receiver in a manner quite similar to the Bren. The removable barrel is twenty-one and a half inches long and is rifled with four lands, four grooves to the right. The gun fires from an open bolt and the operating handle is on the left side. There is a bayonet lug under the gas cylinder to which may be attached the standard issue bayonet, although the gun is extremely unwieldy for bayonet work. The gun is equipped with a folding bipod sixteen inches in height and, in the case of the Model 99 only, is equipped with an adjustable rear monopod.

Sights are offset to the left to clear the carrying handle, magazine, et cetera. The Bren-type range drum is graduated from 100 to 1500 meters and allows ten points of windage in each direction. A dovetail, machined on the top of the receiver, takes the telescope sight (described in accompanying article).

AMMUNITION. A narrow colored band painted around the bullet where it meets the cartridge case distinguishes the various types of ammunition. Pink indicates ball ammunition; black, armor-piercing; green, tracer.

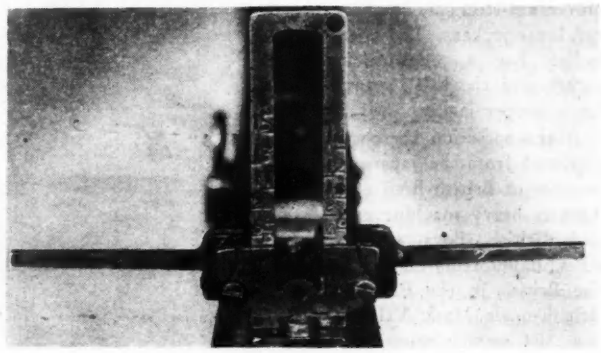
Unless the carton from which the ammunition is taken is available, it is generally difficult to determine whether it is intended for use in rifle or machine gun. Types are not interchangeable, however, and are a bit confusing.

In the 6.5 mm. caliber, of which only ball and tracer varieties were found, there are two types of ball ammunition. Both fire the same 139-grain, cupro-nickel, jacketed, flat-base bullet, one and seven-thirty-seconds inches long, loaded into the full length of the case neck. The 6.5 mm. bullets all "mike" .261 inch, and have a .10 caliber ogive with the point slightly blunted. Cases of both types are brass, *semi-rimless*, containing a Berdan-type primer. The difference in this 6.5 mm. ball ammunition is in the powder charge. The standard rifle cartridge is loaded with approximately thirty-three grains of a square-grained powder that greatly resembles Hercules "Sharpshooter." This charge in the thirty-one inch barrel of the Model 38 rifle gives a muzzle velocity of about 2700 f.s. It is *entirely flashless* and gives a report similar to that of the caliber .30 carbine M1.

The second type is the same cartridge loaded with a reduced charge of thirty grains of the same propellent, developing about 2400 f.s.m.v. This "ammo" is issued especially for use in the Nambu (Model 11) and Model 96 machine rifles. However, it will function quite satisfactorily in the Model 38 rifle or carbine. Primers in fired 6.5 mm. cases, normally set into the primer pocket a trifle more than we consider necessary, were flattened out against the bolt as if from excessive chamber pressure. However, no split necks have been encountered in fired cases.

All 6.5 mm. ammunition is issued in brass Mauser-type clips of five rounds each. These are packed in small pasteboard cartons containing three five-round clips each. A label on the carton identifies the ammunition as "38 Model rifle ball ammunition—fifteen rounds." Reduced charge ammunition is indicated by a G in a circle on the edge of the label. These cartons, in turn, are packed in a wooden box holding about 1500 rounds which is similarly stenciled on the sides. The 7.7 mm. ammunition is packed similarly.

None of the 6.5 mm. wooden bullet ammunition, reported from Guadalcanal, was found but quite a lot of 6.5 mm. blank ammunition was encountered. This had a paper bullet approximately the same size and shape as the ball ammunition and was loaded with a gray-colored powder cut into uniform square grains puffed out on the sides. This is similar to E. C. Powder, our usual blank load. As no rifle grenades were found, it is supposed that this ammunition was for blank firing only.

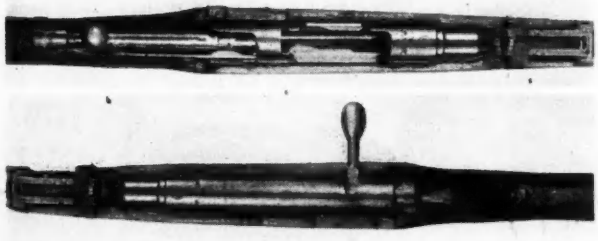


Attached to the slide of the rigid-leaf rear sight are two arms which open downward and are notched on the under side for antiaircraft fire.

The 7.7 mm. ammunition for the Model 99 rifle resembles to a considerable extent the U. S. Army caliber .30 ammunition for the '03 and M1 rifles. The base diameter of the two cases is the same, and the taper is almost identical. The Jap cartridge, however, is necked somewhat more sharply and the over-all length of the case is one-fourth inch shorter. The bullet ogive of the Jap cartridge is slightly smaller. It is flat based and loaded into the full length of the case neck. Weight of the bullet is about 182 grains, and it is approximately seven-thirty-seconds inch longer than the U. S. caliber .30 M1 bullet. All Jap 7.7 mm. bullets "mike" approximately .311 inch.

The propellent for the rifle cartridge is the same as that loaded in the 6.5 mm. ball ammunition. The case is *rimless*, contains a Berdan-type primer a trifle larger than that for the 6.5 mm. case and is not staked in. Muzzle velocity is about 2600 f.s. and the recoil in the Model 99 rifle is similar to that produced by the 150-grain bullet in the M1903 Springfield. This cartridge is also intended for use in the Model 99 machine rifle and can be used in the Model 92 heavy machine gun. A special cartridge, however, in the same 7.7 mm. size is issued for use in the heavy machine gun.

The cartridge for the Jap Model 92 Hotchkiss-type heavy machine gun is loaded on a brass or steel metal strip of 30-round capacity. Strips were found loaded with thirty rounds of ball ammunition (pink band), thirty rounds of AP (black band) or a combination of ball and every sixth round a tracer. Each loaded strip is packed in a labeled cardboard container. On casual inspection the ammunition for the Model 99 rifle appears to be identical with that for the Model 92 heavy MG. Ex-



Top-side views of Japanese Model 38 rifle, showing (above) bolt open with bolt-cover removed and (below) bolt closed, bolt-cover in place.

terior measurements are identical *except* that the machine-gun cartridge is *semi-rimless*. If loaded into the Model 99 rifle, the head of the case will not fit into the recess in the bolt face and consequently will not allow the bolt to close. The Model 92 cartridge will, however, fire in the Model 99 machine rifle *if individually loaded*, but the semi-rim causes an immediate jam in feeding from the staggered-column box magazine.

The propellent for the MG cartridge is a change from the 6.5 mm. and 7.7 mm. rifle cartridges in that it contains about forty grains of a somewhat irregular cut rifle powder resembling to a great extent DuPont IMR 1185. The bullet is (about seven degrees) boattailed and weighs about 204 grains. The AP bullet has a boattail chromium-steel core in a boattail brass jacket. The tracer bullet has a cupro-nickel jacket and the ball "ammo" has a copper jacket.

In this operation, there were captured from the Japanese a number of British Bren guns, Vickers heavy machine guns, and British Boys antitank rifles, undoubtedly taken from the British in the Far East. British-made Mark VII caliber .303 service ammunition was used in the Bren guns and loaded into the Vickers web ammunition belts. In addition, a considerable amount of Japanese-made ammunition fitting the Bren's and Vickers' was found. This caliber .303 or 7.7 mm. ammunition was intended primarily by the Japanese for their Lewis-type (Lewis *copy*) 7.7 mm. aircraft machine guns as used on the Zero fighter. This *rimmed*, brass-case cartridge is an exact copy of the British Mark VII service ammunition even to the stab-type crimp on the neck of the case. It was found in three types which, deviating from the standard color system, were distinguished by a ring of color around the primer, white for AP and red for tracer, the ball ammunition being unmarked. The armor-piercing bullet seems to be different from the Model 92 armor-piercing bullet, having a flat base and a flat-base steel core. Bullet jackets are of copper for ball and tracer and of cupro-nickel for AP. This ammunition was packed between layers of wax paper in cardboard boxes of fifty rounds each. These, in turn, were packed in a watertight tin box containing twenty cardboard cartons and this tin box was packed inside a wooden box with rope handles on the ends to facilitate handling.

Jap light machine gun, caliber 6.5 or 7.7 mm., is gas operated, weighs just over twenty pounds, fires 550 rounds per minute. Note scope sight.

THE JAP MILITARY SCOPE

By CHARLES H. WILLIAMS

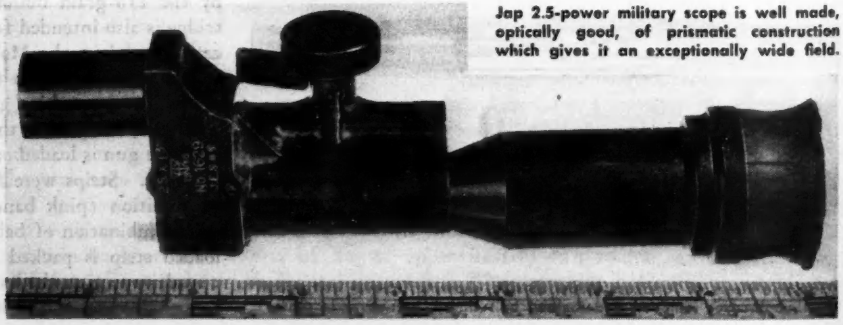
LAST AUGUST, when the savage struggle for New Guinea's jungles attained its thundering climax at Munda and trapped remnants of a beaten Jap army were being dispatched in gratifying numbers, a Yank potted an enemy sniper tied in a palm tree and thereby acquired an interesting souvenir.

This battle trophy recently found its way into the gun cabinet of J. V. Spear, Los Angeles sportsman. It is an efficient-looking prismatic telescopic rifle sight with some unusual and thought-provoking features.

In shape, reticule, and eye-relief the Nip scope is similar to the old Warner and Swasey Telescopic Musket Sight, Model 1908, of World War I. Unfortunately, the resemblance ends there. Unlike the clumsy Warner and Swasey glass, which was ineffectual and nearly worthless on the battlefields of 1917 and 1918, the Japanese scope is sturdy and well-made, is good optically, and has a singular reticule which determines range and allows for elevation and bullet drift up to 1500 meters.

The Jap scope is eight inches long, weighs one pound and four and a half ounces, and is cast of bronze. It lacks adjustments, these undoubtedly being on the mount. It attaches to the mount by means of a slot with dovetail on the left and pressure screw with taper lock lever on the right. It is 2.5 power and its prismatic construction gives it an exceptionally wide field of thirteen degrees, taking in about twenty-two yards at 100 yards range.

Most interesting feature of the Jap scope is the graticule or reticule, which is etched on a glass plate set in the focus of the eye lens. It consists of three concentric ovals framing crossed hairs of unusual design centered in a broad rectangular field. Short, supplementary lines extend at right angles from both the horizontal and vertical hairs, like the mill scale in our military binoculars. The figure 20 appears at both ends of the horizontal hair. The vertical hair extends only slightly above the horizontal

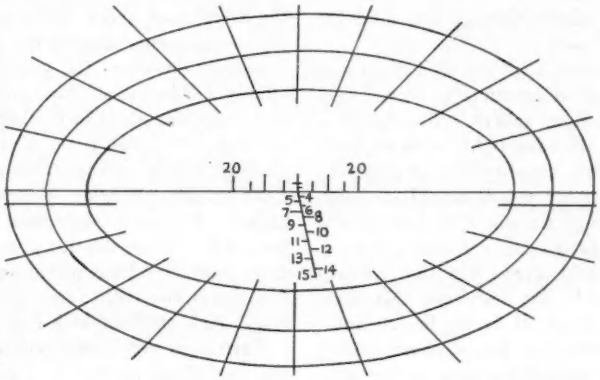


Jap 2.5-power military scope is well made, optically good, of prismatic construction which gives it an exceptionally wide field.

one and its tip is a small cross. This vertical hair slants noticeably to the right below the horizontal line and bears scale markings numbered from 4 to 15.

Frank Pachmayr, the gunsmith, Lester A. Pope, noted rifleman, and other Los Angeles shooting experts have studied this reticule and made the following deductions: (1) The small cross at the top of the vertical hair is the point of impact for which the rifle is sighted in. (2) The scale on the horizontal hair is to allow for wind drift and determine range. (3) The vertical hair governs elevation and the numbers represent hundreds of meters of range. (4) The vertical hair slants toward 5 o'clock to compensate for bullet drift from a right-hand twist barrel.

Speculation about the off-center, sight elevation cross hair in the Jap scope becomes faintly tinged with mystery as one attempts to compare bullet drift in the Springfield with that of the Jap rifle as indicated by the sight. The Springfield's 150-grain bullet drifts 61.75 inches at 1500 yards; but the Jap elevation cross hair deviates so far from the perpendicular at the figure 15 (presumably 1500 meters) that it would seem to compensate for a much wider drift. The answer probably lies in the ballistics of the Jap military rifle.



Singular feature of Jap scope is the graticule, apparently designed to determine range and allow for both elevation and drift up to 1500 meters.

The marked similarity in design between the Jap scope and the old Warner and Swasey glass makes it seem probable that the imitative Nipponese patterned their military glass after Warner and Swasey, working out improvements secretly through the years. The result is a scope with good lenses, wide field, ingenious reticule, and other good features, but with at least two faults: excessive weight and short eye-relief. Pachmayr points out that the scope would be lighter and just as strong if made of aluminum; but perhaps Tojo couldn't spare any aluminum. The short eye-relief probably does not bother the Jap soldier very much, for the .256 Nip must have considerably less recoil than the .30-'06.

All things considered, the captured Jap scope looks like a good serviceable piece of military equipment. The reticule of their glass is especially deserving of thought and study. It looks like a clever Jap aid to the making of expert riflemen out of utter tyros on a swift mass-production basis. If it works to that end, it is something worth considering for our own training and combat use.

Notes on the "Nambu" Pistol

By CAPTAIN GORDON BESS

AT FIRST SIGHT, the Nambu pistol, official side arm of the Japanese Army, resembles the German Luger. Actually, the Nambu design is a combination of the best Mauser features with a number of not-too-bad Japanese alterations.

All the Nambu pistols I have examined have shown signs of rush production. Machined surfaces are rough and the blue, even on new weapons, is not good. However, since rough finish and poor blue are not unknown in our own wartime-made arms, this is no serious criticism. Materials seem to be sound, as is also the design, with a few exceptions. Functioning is reliable, accuracy is as good as the sights allow, and ballistics (as far as field tests could show) are excellent. Americans do not think that a light bullet at high velocity has the dropping power necessary for a Service cartridge, but the Nambu load certainly leaves little to be desired as far as penetration is concerned. At ordinary short pistol ranges it will always pierce one side, and usually both sides, of an American helmet.

(Editor's note: While all Japanese service pistols are loosely called "Nambus," just as all submachine guns are referred to as "tommy guns," officially only early models with squeezer grip safeties are of the true Nambu pattern. The Japanese pistols dealt with and pictured here are officially known as "Pattern (or model 14.")

Two types of the "Pattern 14" Japanese pistols are pictured, compared to our own Colt .45 Service automatic. Picture at the left shows Japanese holster and one Japanese pistol field-stripped to show parts.

In outside appearance and in feel and balance, the weapon is much like the .30 Luger or the early light-barreled Colt Woodsman. Its grip is long, hand-filling, and would be comfortable except

for a slight board-like flatness and the rather sharp corners of the frame at the top rear of the grip. The trigger pull is light but has a long, smooth take-up, like a bolt-action rifle. The front sight is a sharp-pointed "barleycorn" with a dovetailed seat providing lateral adjustment. The rear sight has a curious inverted V notch whose sides match the slope of the front sight, grooved in the solid metal on top of the receiver bridge. (Some are said to have an elaborate leaf rear sight like the Mauser.) There are two types of trigger guards. Early guns have a small guard with little room for the finger. Later ones, with higher serial numbers, have a much enlarged trigger guard bulging out in front of the frame. It is believed that this may have come about through the need for using the weapon with gloved hand.

Prewar reports credit the Japanese with an Officer's Model of this gun in 7 mm. caliber; but all encountered so far have been the NonCom's Model of 8 mm. caliber. The barrel is four and a half inches long, very slim and light, with six lands and a right-hand twist. Magazine capacity is eight rounds. Flat grips are made of a rather poor wood, scored crosswise rather than checked. The weight of the pistol loaded is about thirty-four ounces. Ejection of fired cases is straight upward. With the exception of the two grip screws and the screwed-on bolt cap, all fastenings are with pins and lugs. Mechanical operation is much the same as in all locked-breech automatic weapons. The firing mechanism has a commendably low number of parts; twelve as against fourteen in our own .45 Colt. Lock time prime is rapid but, due to light parts and a rather slim spring, the blow is not very heavy.

Aside from its small caliber and poor sight, the weapon has only two really bad features. These are the safety lock and the lack of some type of slide stop, beside the magazine follower. When the last shot in a clip has been fired, the bolt is held in the open position by a lug on the follower which rises in its path. To get out the empty clip, it must be wrenched out against the action of the recoil springs. The bolt then snaps down. This makes the changing of magazines anything but a pleasure. However, magazines have aluminum bottoms with recessed finger grips to aid removal.

The safety is located in about the same place as is the slide stop on a .45. This location makes it impossible to release the safety with the right thumb when the hand is in firing position. This is further complicated by the fact that it is necessary to pivot the long arm of the safety through an arc of 180 degrees from the safe position, in the rear, forward to the firing position. The safety lever can be placed on safe whether the striker is back or not so that it is impossible to tell whether or not the weapon is cocked without pulling the trigger or working the bolt. It is, however, a positive safety, consisting of a cross pin passing through the receiver from side to side, locking the trigger bar and action when safety is in off position. Additional safety is provided by a device which prevents the pistol from being fired when the magazine is removed. When the clip is removed, a pivoted block passes over a lug on the trigger, preventing movement.

Field stripping is simple and rapid. Snap the pistol, if cocked. Remove magazine by pressing in on its catch which is located in the same place as on our .45. Holding the pistol in the right hand, press the muzzle against something solid, forcing the barrel back about a quarter of an inch. Holding it there, depress magazine catch with the left thumb and at the same time pull down on the guard with the fingers. Trigger assembly will be pushed down out of its seat and may be removed. Now take the pistol in the left hand and push back the barrel, as before. Holding it so, press in on the head of the firing pin plunger, which projects in the center of the bolt catch, with the right thumb. Keeping it depressed, spin the cap off with the fingers. Care must be taken that spring and plunger do not jump away when the nut comes off. Barrel and bolt, with all parts, may now be removed from the front. Upend the barrel and dump the bolt, firing pin, and recoil springs out to the rear. Pick the bolt lock out of its seat, and the job is done.

Cartridges are bottle-necked, rimless, and about the same size and shape as the .30 Luger. They have Berdan primers and a cupro-nickel jacketed bullet. The powder is curious, coarse-grained stuff, each grain shaped like a tiny pillow. It is a light yellowish green in color resembling our pistol No. 5. Lacking powder scales, I would guess the charge to be about four grains. The bullet looks as if it might run ninety grains. (Ed. note: bullet weight in cartridges reaching this country is 102 grains. Velocities, according to tests made here, run between 860 and 970 foot-seconds. However, velocities vary with ammunition lots, and not enough has gone through proving ground tests to fix any precise limit.)

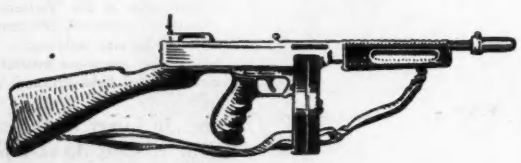
The Japanese carry this gun in one of those fearful and wonderful holsters resembling a large hand, with a huge convex flap covering the pistol entirely. A small cleaning rod is carried in a metal loop inside the holster and there is a patch pocket on the outside apparently for carrying cleaning materials. Some holsters are made of leather and some of a rubber-fabric composition which resembles felting. This is excellent material for jungle operations for it resists moisture much better than either leather or webbing. The Japanese use the same material for waist belts, ammunition pouches, and rifle slings.

Short Stories—Long Shots

(Continued from page 7)

Germans in the process. One prisoner asked about the "T" patch on the shoulders of his captors. When told it stood for Texas he said, "Oh, Texas! Hoot Gibson, Tom Mix, Gene Autrey, Buck Jones—!" "He named more famous Texans than I could name myself!" Nicholls related.

Nicholls likes the tommy gun for his behind-the-lines ventures. "When you need to shoot on that kind of a mission, you're usually so close to your target it doesn't make much difference whether you aim or not. What you want then is a fast burst, to mow the other guy down before he can mow you. . . . But aimed fire does pay off under other conditions. It's superior marksmanship that gives us the edge over the Germans in this foxhole fighting. Good riflemen can make it mighty unhealthy for Jerry to man a gun or stick his head up; and while he's pinned down, we can advance."



Modern architecture in an ideal setting combines with up-to-the-minute equipment to make the San Francisco Police Pistol Range one of the finest in the country.

CALIFORNIA COPS GET THE RANGE

THE SAN FRANCISCO POLICE PISTOL RANGE, completed in June, is one of the finest and most modern in the world. Covering two and a half acres of a five-acre site on the shore of beautiful Lake Merced, it provides the latest equipment and most up-to-date system of operation and safety control. Many of the features originated at the Fort Funston Police Range by the San Francisco Traffic Police Revolver Club (range later taken over by the Federal Government as a part of a military reservation) are included in the new range.

An elevated control tower provides unobstructed vision for the range officer, enabling him to see every foot of the firing line, targets, and spectators' area. The firing line is thirteen feet wide and 142 feet in length. The spectators' area covers a space thirty-eight by 148 feet and is raised three feet above the firing line to permit clear vision and to separate spectators from those firing. Firing points and spectators' area are covered by a high roof extending eight feet beyond the firing bench, with walls enclosing the rear and both sides, thus providing protection under all weather conditions. This enclosure also provides an all-weather area for basic training, use of sighting bars, etc.

A six- by eight-foot reinforced concrete tunnel serves the twenty-five- and fifty-yard pits, which are nine by nine feet, also of reinforced concrete, with six-foot cantilever roofs to protect pit personnel from weather and ricochets. Both pits are equipped with underground reinforced concrete target houses, thirty by thirty feet and twenty-five by twenty-one feet respectively,

Duff-Norton targets work in banks of ten; permit simultaneous fire at both twenty-five and fifty-yard ranges.

each located at the center of the pit it serves. Target house roofs are covered with a fourteen-inch layer of soil, sodded, so that the entire range is a flat green lawn with targets standing above the grass. The target houses contain scoring and pasting benches and numbered target shelves, permitting rapid change of targets and proper filing. This eliminates errors and confusion. Scores of each relay are transmitted immediately after completion of firing to the Statistical Office and scoreboard.

A large blackboard on the wall of the spectators' area is directly connected by interphone with the Chief Scorer in each pit. As each string is scored in the pit, it is phoned to the scoreboard and immediately posted. Competitors may immediately request a recheck, which is made at the pit and the result phoned to the scoreboard. If the competitor wishes to challenge, the target is held for the Official Referee, who has access to both pits via the tunnel. This system of prompt scoring and posting of results within a few minutes after each string has been fired was one of the most popular features of matches fired at the old San Francisco Traffic Club's Fort Funston range and should be even more popular under the greatly improved conditions here.

The range is equipped with forty Duff-Norton targets at both twenty-five and fifty yards; a total of eighty targets. Running man targets are installed at both distances. All targets are automatic, electrically timed, and controlled by the range officer at the control tower. Targets can be operated in banks of ten, so that different ranges and different courses of fire can be operated simultaneously in ten-target units.

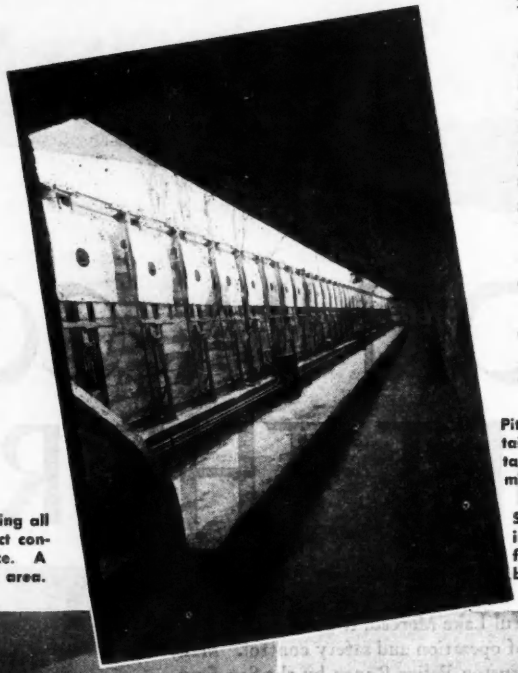
Intercommunicating telephones serve all important stations. A special circuit is used exclusively to maintain communication between the target pits, the statistical officer, and the scoreboard. A third system provides contacts between the firing line, range control tower, and target pits. A modern public address and paging system controls the entire area.

The Administration Building adjoining the range contains entry, registration, classification, squadding, and administration offices; also a reloading room, rest room facilities, and a reinforced concrete vault for the storing of guns, ammunition, and reloading components.

The backstop is a reinforced concrete wall twenty-five feet high. The area directly in line with the targets is provided with a five-eighths-inch armor-plate deflector. The upper part of the wall is faced with thick planking to prevent ricochets from wild shots.

Future plans include the erection of a police academy and club house in a grove some fifty yards south of the range. Classrooms, gymnasium, soft ball field, parade ground, swimming pool, tennis courts, handball courts, skeet field, horseshoe pits, barbecue pits, and cafeteria are to be included later. The gymnasium will do multiple duty as a banquet and dance hall, and as a general meeting place.

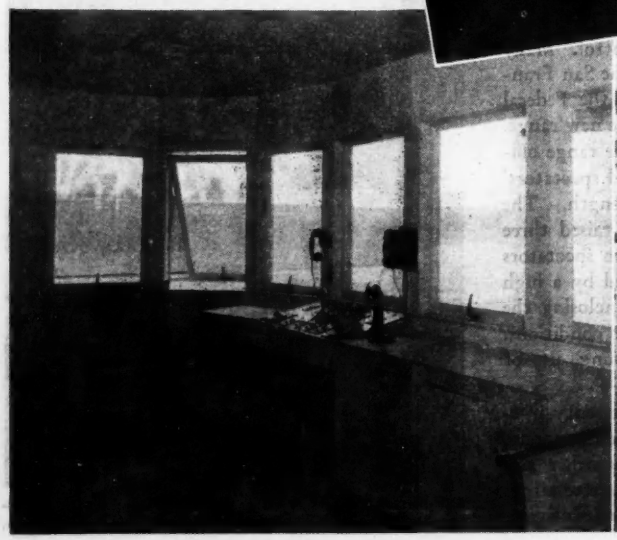
A detail of ten men will be on duty every day to operate the range, with additional personnel assigned to duty when matches are to be fired.

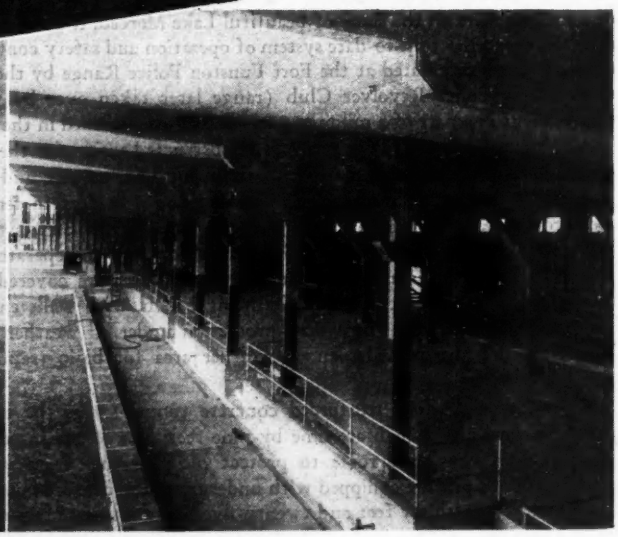


Intercommunicating telephone systems bring all functions of range operation under direct control of range officers in this tower office. A public address system polices the entire area.

Pits are of concrete, roofed to protect pit detail from weather and ricochets. An underground target house serves each pit, and a tunnel permits safe passage between pits and firing line.

Spectator area three feet higher than the firing line permits clear view. Roof extends over firing line, and the public address system combined with prompt scoring keeps interest keen.





LOOKING AHEAD!

(SECOND OF A SERIES)

By The Old Coach

THERE WILL BE AN unprecedented increase in competitive rifle and pistol shooting in the decade following the end of this war IF the NRA and its local clubs provide the kind of *program* and *facilities* that will attract and hold the interest of this new generation of shooting prospects.

Let's consider that matter of *program*.

The men who have made their acquaintance with small arms during the war have been taught to handle semiautomatics. They have been taught the importance of getting off *aimed* shots *quickly*. They have learned the importance of being able to fire from any position. As the war progresses more and more of the men are learning the value of the telescopic sight and the gun sling as an aid to good holding. Hundreds of our small-bore target shooters, raised on a Slow Fire diet, have now been weaned to the tougher fare of surprise fire, rapid fire and "any position" shooting demanded by the conditions of the international match in which they are now engaged.

To capture and hold their interest in competitive shooting we must give these men the kind of targets and match conditions which will seem to them to be practical as well as interesting. At the same time the rules must continue to be drafted so as to be possible of uniform enforcement and to provide *equal competitive conditions for every contestant*. It is easy to work so hard at simulating field shooting conditions that uniformity of competition is destroyed and contestants feel that they have been defeated by the conditions of the match rather than by the superior ability of the winner.

It is also essential to bear in mind that, to maintain popular interest, target ranges must be convenient to centers of population, safely situated to avoid shots getting off the reservation, and so designed as to make possible proper range discipline and observation by range officers and referees.

Bearing these factors in mind, the reasonable, practical postwar modifications of our competitive program would seem to be—

(a) For .30 caliber:

1. A general relaxing of rules governing firing positions, allowing the individual more leeway in determining where he will place his left hand on the fore-end; whether or not he will cross his feet, ankles, or legs; whether or not he will use the loop sling, hasty sling, or any sling, etc.

2. More events of the "Camp Perry Instructors" type, calling for surprise fire on bobbers or pit-operated targets.

3. A return of the "running deer" events to official competitive circles, perhaps supplemented by the "running man" or "galloping jeep."

4. An increase in the number of scope-sight events but with accent on scopes and mounts of the hunting type (which are also the type best adapted to sniping).

(b) For Small Bore:

1. A great increase in three-position and four-position events coupled, with relaxation in position rules as in the case of .30 caliber.

2. The addition of surprise-fire, timed-fire, and rapid-fire events.

3. The addition of small-bore versions of the "running deer" type of match.

4. The addition of events in which breakable targets will be used to show hits.

(c) For Pistol and Revolver:

1. The addition of the Olympic-type bobbers and surprise-fire events to regular programs.

2. The addition of the "running-man" targets, perhaps including approaching and retreating runs.

3. The addition of events in which breakable targets will be used to show hits.

All changes of the type indicated can be made by modification or addition to existing range facilities. Any range which is safe for the firing of the prewar type of matches will be safe for the firing of the faster-moving type of match which will probably characterize the postwar program. The older matches will remain for those who want them and to provide the essential training in marksmanship fundamentals *which tyros must have* before moving up to the rapid-fire, surprise-fire, and moving-target events. The game will not be changed in its fundamentals; it will merely be broadened to appeal to the new generation of shooters developed during the war.

(d) Team Events:

In the final analysis, the growth of organized shooting depends on the growth of stronger, more active, better equipped and better managed *clubs*. This being true, much greater stress must be placed in the future on club *teams*. Not the old-fashioned kind of four- or five-man teams of master shots who gradually discourage everybody else in the club from trying out, but real *club* teams of ten, fifteen, twenty-five shooters where the masters will have to coach and encourage the sharpshooters and tyros in order that the *club* may make a good showing. We have classified our individual matches. There is no good reason why we cannot establish classified team matches in which tyro teams will compete only against tyro teams, marksman teams against marksman teams, and so on.

Team matches have the great advantage over individual events of permitting coaching by experienced shots and the exchange of helpful information between team members. Because of this, team matches afford the logical means of getting tyros started in the competitive field.

Team matches gradually slipped into the background during the period when the National Matches and a few large regional matches were all the "official" competitions available. The time and expense required to attend these events made it difficult to get enough men from one club to compete as a team. The postwar period will, on the other hand, find Class A Regional Championships, Class B State and District Championships; and Class C Registered Tournaments, so widely distributed that any club having the proper club spirit will be able to enter teams

A PAPER FOR PEOPLE WHO SHOOT

Rifle Remington DUPONT News

BRIDGEPORT, CONN.

Possibles and Impossibles

by **FRANK J. KAHRS**

I have always maintained that once a man becomes interested in rifle shooting he never really loses his interest. And I think that a letter which I recently received from an old-time rifleman proves this point.

In this particular case, this rifleman was a member of the Iowa State Team and shot at Sea Girt and Camp Perry in the National Matches back in 1912 and '13, and took on as his contribution to the war effort the job of teaching youngsters marksmanship, with the thought in mind that if these boys were called upon for military service, they would at least be proficient with the rifle.

Since Pearl Harbor he has trained over 200 boys. Many have qualified as Expert, and eight as Distinguished Riflemen, over the Junior N.R.A. Course. He has had one team of five boys win first place in the Annual Hearst Junior Rifle Tournament in the Third Service Command. Their score was exceptionally high for boys 16 to 18 years old—886 out of a possible 1000—standing and prone.

Now here's a real American who became inoculated with the rifle shooting bug nearly 30 years ago, has passed through two wars, and is still young enough to actively show his patriotism and Americanism by teaching our youngsters the art of rifle shooting for peace, war, or sport.

Once more we take off our hat to a real American.

* * *

Out in Anaconda, Montana, there is a rifle and pistol club which is really going to town to turn out a modern plant. They have 25 firing points at 200 yards, 41 firing points at 50 and 100 yards; also 20 targets on the pistol range fully covered.

There is a club house with an electric range, hot water heater, and enough equipment to serve 50 or 60 people with hot lunch. For the duration, however, the club is not going in very heavy on the eats, but does furnish hot coffee and soft drinks during such shoots as they hold.

They conducted a Class "C" Shoot on June 25th this year which included 40 shots at 50 meters, 20 shots

at 50 yards, a Dewar Course Match, 20 shots at 100 and 20 shots at 200 and an aggregate of all those matches. Also 200-yard Swiss Match; and all of these are any sights.

We've heard quite a bit about this range, and sometime we're going to stop off for a visit with the club.

* * *

Another active rifle club is at York, Pennsylvania, at least so far as offering training facilities to juniors is concerned. Over 40 juniors are receiving intensive training, and the club is mighty happy over the results of the instruction.

We have an idea that when rifle matches are again a weekly affair, many of these youngsters will be on the firing line giving some of the old boys a run for their money.

Nice work, York!

* * *

There is a rifleman in Wilmington, North Carolina, who as a rifle shooting instructor has an unusual record. Since Pearl Harbor he has trained 203 men in the fundamentals of rifle marksmanship.

One of his pupils tells me that until he had joined one of his classes, he had never fired a rifle at a regulation target, and has since qualified as Expert on the gallery range, and is now due for Army induction.

The Club is sending some good shots into the Army. It's good to hear of these men who are doing a job but are unsung. However, the North Carolina State Adjutant General's Department gave this man a Distinguished Service Award back in 1938 for outstanding service in the interest of civilian marksmanship.

I'd like to hear about some of the others who are doing a good job.

NEW DEVICE ADJUSTS SIGHTS WITHOUT TEST FIRING

REMINGTON'S research engineers have developed a new, compact, easily operated and inexpensive device with which the sights on Springfield rifles can be quickly adjusted without firing them at all.

This new device not only saves time and labor, but eliminates the necessity for a large investment in range facilities and creates a substantial saving in ammunition formerly used for testing. The saving to the government has amounted to about $300 per day. Use of the invention has been offered the government, to be made available to any other manufacturer of small arms, on a royalty-free basis.

The principle of operation is optical. A plug is inserted into the barrel at the muzzle of the completed gun. Attached to the plug is a tube containing mirrors and lenses. The tube is above the bore line, or outside the barrel, and can easily be set exactly on the line of sight. The front and rear sights are then illuminated and, by means of the tube of lenses, the images of the sights are projected upon a screen. These images form a pattern which changes when the sights are moved. The action is similar to that of artillery or camera

range-finders which show an object in dual. Adjustment brings the dual ob together into one. At that point the alignment is perfect.

While probably two people "sight" a rifle the same way, due to the human equation, this new device assures the soldier of mechanical perfection in the alignment of sights.

THERE'S ONE IN EVERY CLUB . . . .
WHO WANTS TO BUY A PLOOP RIFLE WITH A BUNYAN BARREL? I'LL TRADE FOR A ZOLLENWEISS SCOPE AN' $10 AN' A SCOPE STAND AN' . . .
I'LL GIVE YOU FIVE OLD GAS MASKS LIKE A SHOT
WHAT'S THE MATTER WITH IT?

The sailor with only 2 sweethearts

1 **MY FRIEND FRANK,** bosun's mate first class, pulled the snapshot out of his wallet, proud as a newly commissioned cruiser. "Here she is," he said, beaming: "Eileen." "Nice!" I said. "Yeah," he agreed. Then I noticed he'd dropped a scrap of paper. "Oh, that's my only *other* sweetheart," he said. "Look." It was a picture of a *shotgun!*

2 **"I FELL IN LOVE** with that shotgun when the Navy issued me one for skeet shooting back in anti-aircraft training," Frank went on. "Sweetest-handling autoloader I've ever come across. The other day I saw this picture of it in an ad and tore it out. It's the Remington Sportsman—and believe me I'm gonna get one after the war. And then . . .

3 **"IF IT'S ALL RIGHT** with Eileen—we'll be married then, I hope—first hunting season, I'm going to fill my pockets with Remington Express shells (you know, those long-range loads), and keep a big date on a duck marsh with this second sweetheart of mine. Yes, and . . .

4 **"AS FOR QUAIL,** I know the place to find the fattest ones that ever sat in a roasting pan! You use Remington Shur Shot shells for those, of course." "Look, Frank," I said as an idea hit me like a 500-pound demolition bomb."*I* gotta girl home I hope I'm gonna marry, too. Sometime after this war job is done, what say we get the girls together and let 'em let their hair down for a few days—while we go hunting?" "*Sold!*" said Frank. So now that's one of our important "post-war objectives."

NEW! Looking toward the day when we can again supply essential civilian ammunition, we've designed these new, easier-to-recognize packages for two of your old Remington friends.

Remington Sportsman 3-shot autoloading shotgun.

▶ Remington has produced vast military supplies—for months on end making, *per day*, 30,000,000 rounds of ammunition, and more than enough rifles to equip an entire infantry regiment! And soon—we hope—we will once more be able to furnish sportsmen with Remington shotguns and rifles, Remington Express and Shur Shot shells, Remington Hi-Speed .22's with Kleanbore priming, and Remington big game cartridges with Core-Lokt bullets. *Remington Arms Company, Inc., Bridgeport 2, Conn.*

Remington

DU PONT

Sportsman, Express, Shur Shot, High-Speed, Kleanbore and Targetmaster are Reg. U. S. Pat. Off.
Core-Lokt is a trade mark of Remington Arms Co., Inc.

in classified team matches. More such matches must be provided. The success of the Leagues has proved the soundness of the team match idea.

(e) Training Program:

The unqualified success of the Basic Training Program in every club where the plan as outlined by the NRA has been wholeheartedly followed is evidence of the enormous value of such a program as a means of bringing new shooters into the game and new life into local clubs.

In the postwar period we must consider the Basic Training Program as an integral part of our competitive structure. Baseball, football, basketball, swimming, boxing, track—every competitive sport *except* shooting accepts the necessity of a basic training program *ahead* of all thought of actual competition. Only in the shooting game have we expected people to come out to the range, find someone to show them how the range operates, and then, largely on the tyro's own initiative, develop into a good shot and active club member.

"Sure, babe, I can shoot craps . . . but not with a Garand!"

Clubs must have a permanent Instructor or Coach, just as they have a permanent Executive Officer and Secretary. The Instruction Program must be as definitely organized and as carefully handled as the Competitive Program. Qualification firing should be considered the final step in the Instruction Program,—the step where the student, for the first time, goes on the firing line "on his own" and with the knowledge that if he makes good shooting against par score he will be ready to enter the competitive game shooting against others in his class.

The postwar program will require some changes and additions to the average club's *facilities*. In the next and final installment of this series we will run a brief discussion of postwar facilities.

The Single-Shots

(Continued from page 12)

"Low-pressure" loads, developing a maximum pressure of 35,000 pounds; "medium-pressure" loads, developing pressures up to 45,000 pounds; and "high-pressure" loads, with pressures up to 55,000 pounds. So rated, the following actions should be rated about as follows:

The Farquharson will take "high-pressure" loads if heat-treated.

The Winchester low-wall is okay for the "low-pressure" conversions.

The Winchester high-side, thin wall, casehardened, is suited for the "medium-pressure" loads after heat treatment.

The Winchester high-side, thick wall, not casehardened, will take all the "high-pressure" wildcats.

The Ballard and the Stevens 44 will take "low-pressure" loads only.

The Stevens 44½, casehardened, is good for "medium-pressure" loads.

The Hepburn is comparable to the Stevens 44½ but has inadequate side lever for extraction and its firing pin is not in line with the bore, both of which features are apt to cause trouble when over-pressured.

Borchardt actions are okay in design but should have firing pin retractor built in for "high-pressure" loads. Has fast straight-line ignition, but the metal is not as good as that in later Model Winchester high-sides.

The Remington Rolling Block actions, 1902-18, chambered for 7 mm. Mauser, .30-40 Krag, .303 British, 7.62 Russian and 8 mm. Lebel, have inadequate extraction and a breech block mechanism susceptible to jamming under high pressures.

Martini single-shots come in various sizes, the larger of which will take the higher pressures. On these larger calibers, extraction can be improved to handle rimless cartridges. Smaller Martinis make excellent .22 rim-fire rifles, with fast lock time and high accuracy.

To be sure, all of these actions are used in conversions involving pressures far in excess of those herein recommended; but those are experimental weapons in the hands, usually, of experienced technicians. Minute variations in loads of this type may produce deadly increases in pressure; therefore, the recommendations above, conservative though they may be, should be observed.

Meanwhile, the demand for single-shot rifles continues to increase and it is barely possible that this demand may result in the resumption of manufacture of these actions by one or more of the commercial gunmakers.

The old single-shots have a well-earned reputation, and many of them were products of the artistic craftsmanship of the old masters; guns worthy of the love of the most demanding rifleman. What the future may hold for these rifles is beyond prediction. Certain it is that, unless they are made to meet the demand now existing for them, they will become as rare as trumpeter swans and honest politicians.

EDITOR'S NOTE: Pictures and detailed descriptions of various single-shot rifles and actions may be found in a series of articles by J. V. K. Wagar in THE AMERICAN RIFLEMAN in 1940. Back issues are not available. The following index is given for the convenience of subscribers having back files.

Sharps hammer action, February.
Sharps-Borchardt, March.
Winchester (High-low) April.
Stevens 44 and 44½, May.
Springfield S.S., June.
Rem.-Rider Rolling Block, July.
Whitney Rolling Block, July.
Remington-Hepburn, July.
Ballard, August.
Martini, September.
Farquharson, October.
Maynard tip-up, December.
Wesson, tip-up, December.
Stevens tip-up, December.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

.22 AMMUNITION FOR CLUBS

The Director of Civilian Marksmanship has notified all NRA Clubs of the renewal of War Department issues and sales of .22 Long Rifle ammunition on the "prewar basis." The ammunition will be sold by the D.C.M. to NRA clubs in case lots of 10,000 rounds. Sales by the Director of Civilian Marksmanship do not require approval of the War Production Board. No sales will be made to individuals.

This action will permit *any* NRA club, junior or senior, in good standing to purchase reasonable quantities of .22 ammunition for pre-induction training or for use by club members on the club range—or, in the case of interclub matches or registered tournaments, on the ranges of other clubs. Information that any of the ammunition is being resold to non-club members or used for other purposes than the regularly sanctioned instruction training, qualification and competition programs of the War Department and NRA will lead to cancellation of the issue and sale privilege.

Official requisition and purchase order forms, including detailed instructions, have been mailed the secretaries of all clubs on the D.C.M. and NRA roster. A set of these forms will be furnished each newly organized club as chartered by the Association. Any group of ten or more able-bodied male citizens of the U. S. may organize a club and build a safe range by following the instructions contained in the organization literature and range plans available from the NRA upon request. Rapid changes in club personnel have resulted in many changes of club officers which have not been properly reported to National Headquarters. If your club secretary has not received the memoranda and forms, he should immediately write Russell Lent at NRA Headquarters.

NEW BOOKS

"THE CANVASBACK ON A PRAIRIE MARSH"

By H. Albert Hochbaum

This book is a promise to wild-fowlers; a promise of good hunting for the future made secure by a complete knowledge of the waterfowl and of its needs. This knowledge will serve as the basis for sound management. Put into practice, such management means the eternal security of our great waterfowl resource and the annual harvest thereof.

The new idea of wildlife management was barely an idea a decade ago, but it was an idea based on sound thinking and it prospered. The immediate need was for prompt restoration of breeding marshes, improvement of wintering areas and the safeguarding of the remaining breeding stock. These were successfully accomplished and, aided and abetted by kinder Weather Gods, the birds responded.

But long-time thinkers were looking farther ahead. One basic thing needed was more knowledge of the birds and where and how they lived. The program of the American Wildlife Institute, in co-operation with the federal government and various states and land grant colleges, was to provide the essential information needed for good management. A series of research projects was started, one of which sent big, quiet, observant Al Hochbaum into the prairie marshes of Manitoba. He set up headquarters on the shooting preserve of James Ford Bell, of Minneapolis, now a co-operating outdoor laboratory in the heart of the duck breeding country. That was in 1938. With the advice and counsel of the best ornithologists and wildlife managers of this country and Canada, Hochbaum plotted his course and began his studies.

"The Canvasback on a Prairie Marsh" is the first development of his notes in published form. The book presents in a pleasant and enjoyable style the results of careful scientific study by a trained ornithologist. There is no stilted, highly technical language to confound the layman. An accomplished artist, the author has embellished the book with many of his own fine drawings. It is a book for the intelligent sportsman who has an interest in the future of his sport.—C. M. P., Jr.

(201 pages, The American Wildlife Institute, Washington, D. C., $3.00. For sale through the NRA Book Department.)

SEA-GOING SNIPERS

Marines played a unique role in the invasion of France; one that took them back 168 years to their sailing-ship beginnings.

Picked Leatherneck sharpshooters, armed with rifles and knives, as of old, rode high in the masts of the big ships of the bombardment force, their targets not the individual enemy, but floating mines!

The Marines manned their posts through the dark pre-dawn hours of D-day as we sneaked through the channel mine field and on to the French coast.

Their job was the envy of all their fellow Marines among the gun crews, all of whom realized the safety of an entire battle wagon or cruiser might depend on the alertness and the expert shooting of a single Marine.—By Lieutenant Weldon James, in CHEVRON.

COMING EVENTS

Registered Class C Tournaments

California, August 12-13—Southwest International Pistol, Los Angeles. Basil L. Starkey, 3620 W. 62nd Street, Los Angeles 43.

Georgia, July 2—Pistol Tournament, Gainesville. Sponsored by Gainesville Rifle & Pistol Club. O. J. Lilly, Gainesville, Georgia.

Iowa, July 23—Iowa State Rifle Ass'n Small Bore Championship, Waterloo. Ralph W. Travis, 314 Insurance Bldg., Waterloo.

August 13—Iowa State Ass'n Annual Pistol Tournament, Bettendorf. J. G. Johnston, 219 W. 7th Street, Muscatine.

Illinois, July 23—Lincolnwood Outdoor Pistol Tournament, Lincolnwood. R. W. Maloney, 5553 W. Grace Street, Chicago 41.

August 20, Illinois State Ass'n .45 Caliber Championship and Foreman Trophy Matches. R. W. Maloney, 5553 W. Grace Street, Chicago 41.

August 27—1944 Rifle Tournament, Deerfield. Sheridan Rifle and Pistol Club, Inc. C. Myron Huls, 1821 Broadview Avenue, Highland Park.

Michigan, July 30—Annual Mid-Summer Small Bore Tournament, Flint. A. J. Marxhausen, 2521 Thomas Street, Flint.

August 20—Annual Mid-Summer Pistol Tournament, Flint. A. J. Marxhausen, 2521 Thomas Street, Flint.

Ohio, August 12-13—Small Bore Rifle Tournament, Marietta. Fort Harmar Rifle Club. H. W. Miller, 621 7th Street, Marietta.

August 26-27—6th Annual Small Bore Tournament. Tusco Rifle Club. Richard Paddock, 435 Fair Avenue, N. E., New Philadelphia.

MEET MR. GRIZZLY

By Montague Stevens

Fifty years ago the Datil Mountains of New Mexico were rugged and rough. They harbored hostile Indians, cattle rustlers, and horse thieves. They were forbidding and offered relatively little encouragement to ranchers. Yet that is the place selected by the author of this book for his home and that is where he first met Mr. Grizzly.

Son of an English general, Mr. Stevens was born in India and graduated from Trinity College of Cambridge University in England in 1881. But the lure of our western ranges and the love of a vigorous outdoor life were so attractive to him that he settled in New Mexico to make ranching his life work.

In "Meet Mr. Grizzly" you also meet the early western rancher and live with him the hardy, hazardous life of those times. Stevens was, by turns, Army scout and Indian fighter, cattle man and horse wrangler, hunter and guide. He entertained on his ranches some of the leading sportsmen of those times. Not content to follow ordinary routine, Stevens was always seeking better ways of doing things. Some of his ideas were virtually scandalous in the eyes of his neighbors. But he brought to his work and to his sport a keen, inquiring mind. He studied every phase of bear hunting, for example, and developed his technique and tactics to fit the varied conditions as he saw them. He bred and trained his horses, hounds and fighting dogs by unorthodox methods to do unconventional things never dreamed of by his local contemporaries. This is a book that will delight the hunter and sportsman, the horseman, and the dog man. It is a book for all outdoorsmen.—C.M.P., Jr.

(281 pages, cloth, $3.50, The University of New Mexico Press, Albuquerque. For sale through NRA Book Department.)

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Case Forming · Hydraulic Die · Wilcox Bullet Dies · For Presses · For Mallets · Roper Pistol Safety · New S.-W. .30-.348 Wildcat · O.K. Rifled Slugs · Lead Alloy Reloads · Trade Dope.

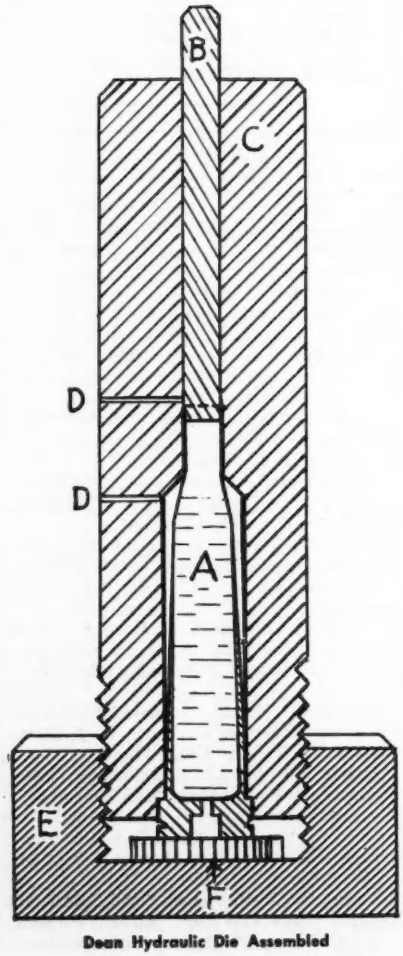
HYDRAULIC CASE FORMING

In most modern conversions of standard cartridge cases the body taper is reduced by blowing out the front end at the shoulder. After necking and trimming the case it is usually blown out to its ultimate shape by firing it in the new chamber, with a modified load; sometimes progressively, with two loads, in order to avoid excessive loss of precious brass. This loss is neither as great nor as serious in the case of the smaller wildcats, but it is an important matter when the large and expensive magnum cases are involved, especially in these days of scarcity. With some lots of the big cases, losses as high as 50% are commonly reported.

If some economical method of blowing out cases could be found, it would be a boon to everyone concerned. If this method were also divorced from shooting, precious primers, bullets, and powder would be saved as well, and fruitless preliminary wear and erosion of fine target-type barrels would be avoided. Exactly that solution of this important problem has been achieved by Dean Astles and his brother Walt, of Rochester, New York. They had made a reamer and had chambered a varmint rifle for a new .25-caliber cartridge based on the belted Magnum case. They had a hundred or two of old .275 H.&H. Magnum cases, some of which were weak from use or age, and they wanted to keep case mortality at the lowest possible minimum in reforming them for their new .25 Magnum. Their solution was to make a case-forming die with their chambering reamer in order to utilize hydraulic pressure. It proved to be a grand success.

To make one of these hydraulic-pressure dies requires a lathe. The best plan would be to have the gunsmith make one when he chambers your rifle for that Magnum wildcat, because the same chambering reamer must be used. Dean and Walt made theirs of cold-rolled steel. The quarter-inch plunger is made tougher, hardened, and drawn. The photograph shows the parts, and the sketch shows them assembled and holding a belted case ready to be reformed. A ten-pound hammer can be used for a few hard raps, or a greater number of lighter blows may be better as then the expansion would be more gradual. A heavy vise or a press would give a continuous slow expansion and allow the brass to flow, or readjust itself, under slow pressure. Any of these methods are practical. Dean says the only cases that let go were abnormally weak ones which would have ruptured anyway, the first time fired. It is the logical way of reforming any of the bigger cases.

Essentially, this reforming die is a reproduction of the gun breech sans ignition. The die becomes the barrel and the plunger, the bullet (being seated). The base or base cap is the bolt face, or breech block, and its threads, the bolt lock. The headspace adjustment and control is as critically important as in the gun itself. The belted case offers an advantage here, because the front edge of the belt serves as the stop, and so the shoulder bevel can be given a slight clearance. In the .30-'06 or Newton or other rimless cases the front bevel is the only stop and must be exactly located for correct headspace in locked position, whether in the gun or in the reforming die. The auxiliary disk, used by the Astles brothers, facilitates the regulation of headspace and it also provides a primer seal and a true-face support, or right-angle stop, for the base of the cartridge in the die. The threading of the die and its base cap must be concentric, of course, and coarse threads are used to speed up removal and replacement, of this base piece, as this must be done for each case reformed. Dean calls it a "spinning fit," because he quickly spins it off and on in the interests of quantity production. When a great many cases are to be reformed the value of the fast thread becomes apparent. The base may be fixed to a bench or heavy block and the knurled die turned into it quickly by using both palms and rolling it, between them.



Dean Hydraulic Die Assembled

The first step is to expand the case neck in order to get a tight oil-sealing fit in the die (C). The case is driven into the bottom of the die until it is stopped by the contact of the belt against its seating shoulder in the die. The disk (F) is placed in the threaded base cap (E) and the die is screwed into it until the fired primer and the base of the cartridge are stopped by the disk (F). The case (A) is filled to the mouth with oil (Dean suggests No. 30) and the snug-fitting plunger (B) is thrust into the top of the die and forced into the mouth of the case. A small vent (D) through the side of the die and into the plunger hole above the mouth of the case releases the air trapped by the descending plunger. Dean suggests .050 diameter for this vent. Another air vent (D) must be similarly provided at the widest point of the shoulder of the die. Dean says this vent should be no larger than .020 inch. When the plunger is driven into the oil it is violently displaced, or under pressure of the driving force, which pressure is exerted equally in all directions, and the old case is pressed out until the steel walls of the new chamber stop it. This contact also stops hammer or press force.

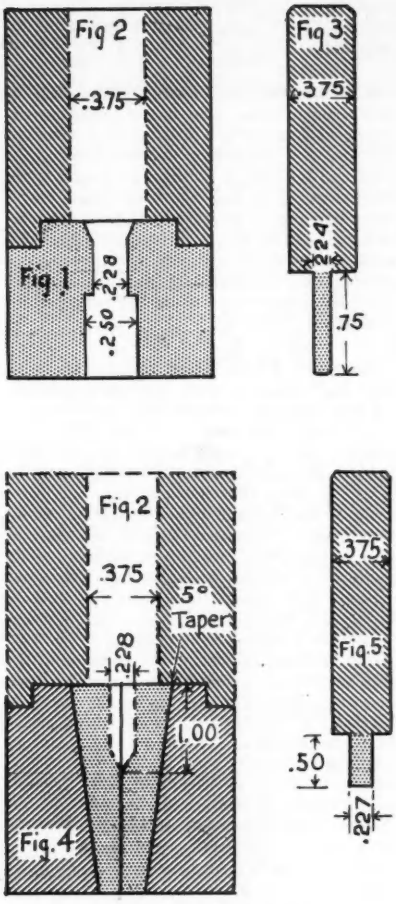
The two small air vents are important provisions. Dean says it is important to keep them on the opposite side from the operator as any ejections under pressure are invariably at very high velocity. Also, when a case ruptures, a fine stream of oil shoots out of the lower vent at an extremely flat trajectory. He has noted that hydraulic reforming does not tend to shorten .275 Magnum cases as much as reforming them by firing does. Relatively, belted cases are more readily available in .300 Magnum caliber, and consequently the Astles brothers have been using the .300 H.&H. Magnum cases in their .25 Magnum. Walt sets the shoulder back very slightly to insure a positive headspace contact of belt-and-die shoulders. The cases are purposely left long in the reforming and trimmed later to exact chamber length. The photograph shows some of them in various stages. Dean says their own method of operation is to fill the old case with the oil before it is forced into the die. Then the base cap is spun, or turned on quickly, with the die held upright. After reforming is completed, which can be judged by the solid resistance to further pounding or to vise-handle turning, the base cap is spun off and the plunger is given an extra tap to eject the reformed case. It is then cleaned, in gasoline or other volatile solvents, and trimmed. And there you are; without any preliminary handloading, shooting, or wasteful consumption of valuable and scarce components.

WILCOX BULLET DIES

The only feature of the R.C.B.S. equipment that has not been reported in the past two issues of the Dope Bag is the flat-end, or blank, head for preswaging the lead-wire cores into their jackets. I tried it the other night in my Pacific tool and it worked to perfection. Not only did it give uniform preswaging, but it flattened the base of the jacket and partially removed the firing-pin indent, ubiquitous in the annealed .22 rim-fire cases I was using for bullet jackets. In this operation, the core is dropped into the deheaded case, then inverted and slipped, mouth first, over a small R.C.B.S. punch of suitable diameter. The die should be of about the same diameter as the case. For uniformity it must be adjusted to end the stroke of the Pacific handle over center, exactly as in bullet swaging with this tool. Since the technique is the same, it takes as long as swaging, and that is my sole objection to this method of preswaging cores into jackets. I found I could produce no more than 100 per hour. I went back to my old self-devised method of preswaging with a hand punch and a light wooden mallet which gives a production rate twice as great, or 200 per hour. I can easily tell, by the feel of the mallet and the sound of the taps, when the core has been solidly tapped into the jacket, and I get adequate uniformity as well as good production speed. However, my case holder, held in my vise, leaves a rounded base which fails to modify the firing-pin mark that blemishes every rim-fire jacket when fired cases are used.

A new design of bullet-making dies is offered by H. S. Wilcox, of Towanda, Pa. Mr. Wilcox makes these for his own use, only, and does not make them for sale to others. However, he is willing to share the dope with other shooters, as shown in the accompanying sketches. He uses cold-rolled, tool steel, or machine steel, and hardens only the ends of punches, the middle case-forming die, and the two tapered parts of the split swaging die. Arbitrary dimensions are given in the sketches, but these can be varied to suit individual requirements as to bullet length, weight, and diameter. For example, he suggests a simple three-part die for utilizing fired .22 Short cases in making light bullets with a wooden mallet. Refer to the drawings of the die and imagine the top part (Fig. 2) bored and drilled to accommodate a 5/8-inch ram with a shoulder and a .214-inch rounded punch, an inch long, on the lower end. The hardened middle die (Fig 1) would have a .224-inch hole through it, tapered or funnelled at the top. The bottom part (No. 3) would have a ½-inch straight clearance hole. The swaging die (Fig. 4) made with a hardened, split, tapered plug, would be 1½ inches deep by .224 inch wide in its swaging cavity. The weight of the bullet would be limited by the .22 Short jacket, but it could be modified by varying the lead-wire core, or a longer punch would make shorter bullets.

Wilcox casts his lead cores in gang molds, of twelve to fifteen cavities, made as small as .201 inch, with a No. 7 drill ground pointed, and as large as .226 inch, with a No. 70 drill. He aligns and closes these long mold blocks, of cold-rolled steel, by means of dowels and Allen screws. His swaging cavities are similarly made, and as large as .257 inch, the latter with an F-size drill. He found the tapered swaging blocks tended to rebound on a ten-degree incline but worked all right with his ultimately-adopted taper of five degrees. In reforming .22 cases for .25-caliber bullets he used a .257-inch hole in the middle part of the bullet die and a ram with a socket end to take interchangeable punches of different diameters, because the case expansion had to be progressively increased in steps of .215, .226, and .236 inch. He sent me a nicely-formed, 91-grain, .25-caliber, soft-point bullet that had been made in his dies from fired .22-caliber rim-fire cases.



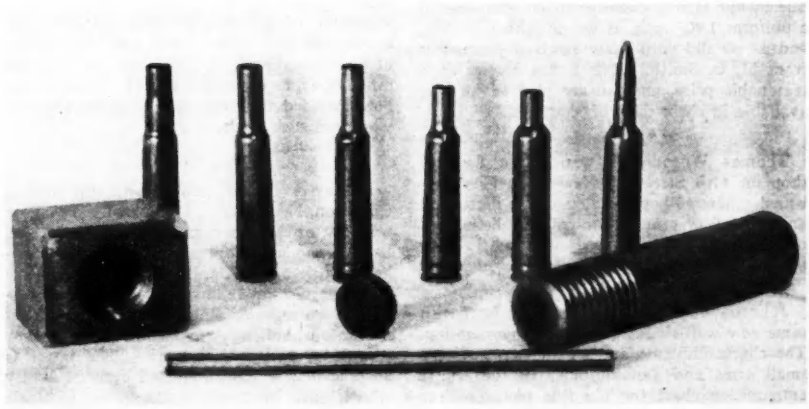
The Wilcox Bullet Die No. 1

Referring to the first cut, the sequence of operation is as follows: Place rim-fire case in Figure 1, mouth down. Place Figure 2 on Figure 1 and drive down punch, Figure 3, until seated. Remove case and insert core (5/8 inch long and .201 inch thick). Insert both in Figure 4. Place Figure 2 on Figure 4 and insert punch, Figure 5, and drive it down until seated. Remove Figure 2 and Figure 5 and reverse Figure 4. Tap on small end of split tapered plug and remove bullet, which is now ready for use, as is, or for resizing to a slightly smaller diameter. By changing the diameters of holes and punches, bullets in diameters of .223 to .228 inch can be made.

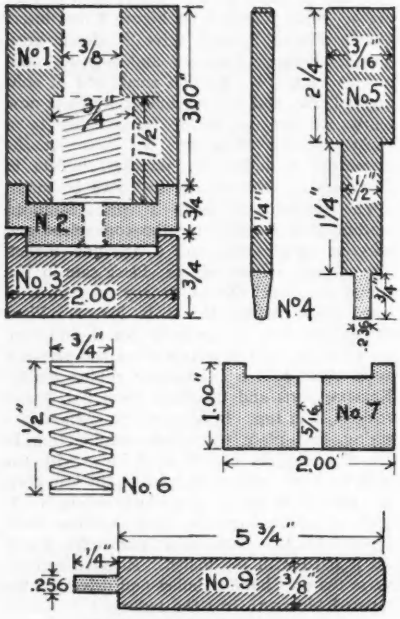
The second cut shows a spring-equipped modification designed for the convenient and effective employment of a rawhide mallet. The operation is as follows: Place case in No. 2 and use punch No. 4, to expand mouth of case, after putting No. 2 in No. 3. Place spring No. 6 in its recess in No. 1 and then both on No. 2. Use punch No. 5 and give it a good blow with a rawhide or rubber mallet. Remove parts and take case from No. 2 and reinsert it in top. Replace No. 1, without the spring, and place the whole combination in No. 7 and again give a good blow with the mallet. Now, remove case, insert the lead core, and place it in the swaging blocks, using No. 1, without spring, on the part holding these tapered blocks. Now, insert punch No. 9 and hit it hard with the mallet. Remove and reverse the part holding bullet and drive out the tapered blocks to free the bullet.

Paul Young sent us some "E. P. Base" stuff, and some drawing oil containing it, for use in case-sizing and bullet-swaging dies. Some years ago, Con Schmitt sent us some similar dope for the same purpose. We have used very little of it, and never use graphite for this purpose, as we have found Anti Rust Oil to be cleaner and more convenient and quite adequate for the job. Plain soap is a good substitute for the microscopic wax film deposited by the wax-insolvent solution. I use it only in reswaging

Component Parts of the Dean Hydraulic Reforming Die and Belted Cases



damaged bullets when it is difficult to get the bigger ones through the die. I save every rejected .22 bullet by clipping off the exposed lead noses and then melting the cores and annealing the jackets before reforming them in the R.C.B.S. equipment on the Pacific tool. They are then sorted by weighing each bullet. We have found that a strong solution of Magic Matt will attack copper unevenly, in three minutes, and will vary the weight of the Long Rifle cases fully 3½ grains. A strong acid solution may do the same in cleaning cases.



Wilcox Mallet Die No. 2

TRADE DOPE

Service on Cases. C. G. Moffat, of North Hollywood, Calif., has purchased the dies and equipment formerly used by M. O. Smith, and can now transform your .30-'06 brass into the .300 Savage, .250 Savage, or .22 Varminter at so much per hundred. See his advertisement. He uses Chaplain Smith's method also, and we have received sample .22 Varminter cases from Moffat as well as from Smith. They worked fine in our Gebby chamber after trimming to a uniform 1.905 inch, as we do with our own, and as we did with those received previously from M. O. Smith. It is a fine service at a reasonable price, and we are glad to have it available in these days of shortages.

* * *

Thomas Woroniecki, who has a firearms shop on 44th Street, in New York City, has issued a new 48-page catalog. It is illustrated and costs fifty cents. Contents are listings of old arms and weapons, used guns and shooting or weapon accessories.

* * *

Johnson Automatics, Inc., are out with some new wall charts well worth investigating. The charts illustrate and characterize military small arms and ammunition. In the No. 1 ammunition chart the old rifle pictures have been supplanted by a series on the light machine rifle in latest model. The No. 2 chart shows and describes the bigger cartridges and shells including the 37-mm. size. There are also No. 1 and No. 2 charts of small arms, all well done.

* * *

Bob Brownell is a custom gunsmith of Montezuma, Iowa, who has a modern well-equipped shop. He is a distributor of Hought-Blue for E. F. Houghton Company, selling the salts and featuring a bluing service with them. He has acquired some nice testimonials on his work and on his careful application as to details. I am impressed most of all by Bob's earnest attitude towards his work and also as regards the responsibilities of his profession, and by his evident awareness of its important obligations.

* * *

Important Pistol Safety. One of the most important announcements we have ever made on hand-gun developments was given in our Kink column last month. It concerned a mechanical safety designed to save the untrained boy as well as the uninitiated adult from unwittingly firing that live cartridge which remains in the chamber of all autoloading pistols, once loaded, even after the magazine clip has been withdrawn. Accidents (usually fatal) from this source are too common. Since that reported last month there has been another locally. A simple safety adjustment, inspired by Mr. T. Y. Milburn and designed and patented by Walter F. Roper, neatly installed in the Colt and High Standard pistols prevents such accidental firing. In one version the trigger is blocked. In another, the live cartridge is automatically extracted. Both are automatically actuated by withdrawing the magazine which represents the critical condition in the conventional unaltered autoloading pistol. Walter Roper is preparing to do the simple safety installation on such arms as are already in the hands of shooters. All new arms should be as adequately equipped by the manufacturers before they leave the factory. Careful informed shooters also need this safety provision in order to safeguard the unwary and uninformed who, sooner or later, may pick them up and get caught by that last live round which remains, like a booby trap, after the loaded magazine has been withdrawn.

* * *

F. R. Krause, gunsmith, of Albuquerque, New Mexico, has been doing custom loading for some time and is now ready to advertise his service to all comers. His advertisement should appear in this issue. Krause features lead-alloy reloads in plain-base and gas-check types, solid and hollow point, and in a variety of popular calibers. At this time there are 100 different types of bullets and 75 different calibers included in his service to those shooters who need such loads.

* * *

Ackley & Turner, new gunsmithing firm in Cimarron, New Mexico, are out with a 24-page price list of their services in handy pocket size. Besides the more obvious lines of this well-known pair of experts, there are included some special services as follows: barrel blanks, three-groove barrels, relinings, reborings, revolver conversions, bullets, experimental works, chronographing, and optical work. The latter is a brand new service conducted by Mrs. Ackley who learned her trade in the service of Uncle Sam and under the tutelage of the U. S. A. Ordnance Department. Her success under rigid army inspection has resulted in this new venture of cleaning, repairing, and overhauling binoculars, hunting scopes, target scopes, and other optical equipment. We are glad to learn this as there is a great need for such service today.

* * *

Don Tibbits, formerly of Whitefish, Montana, has closed his gunsmith shop there and has joined J. R. Buhmiller in Eureka, Mont. No more mail should be sent to the old address.

* * *

J. R. Buhmiller says that he and Don Tibbits are working night and day turning out barrel blanks in an attempt to fill all back orders as promptly as possible. They have been compelled to turn down all orders for barrel fitting until caught up on barrel deliveries. He warns that it takes two or three weeks to turn out barrels when special twists or groove diameters are requested. Buhmiller requests all prospective customers to write for permission before shipping any work to either Tibbits or Buhmiller, until they announce otherwise.

* * *

Osborne Klavestad, dealer in antique and modern arms, of Minneapolis, Minn., announces the O.K. Rifled Shotgun Slug in 12 gauge for all chokes. It is a relatively short, hollow-base, blunt-nose, lead-alloy projectile of "balanced weight" and "precision die-cut spirals with a lead of one turn in 22 inches" and "trimmed ends eliminating 'tails'." They are designed to be loaded in regular shotgun cartridges after removing the shot and crimp. The few samples were neatly made but did not give good accuracy in our inconclusive test.

* * *

New Cartridge Book, by John Wm. Murrow, of Coopersville, Michigan, is in preparation. Mr. Murrow is anxious to get information on all uncommon cartridges, domestic and foreign, ancient and modern, including obscure wildcats. For the latter he wants the name of the original cartridge from which the custom load was converted, and for all he wants ballistics and loads. He already has 1100 on his list including 200 wildcats. He is particularly interested in Sharps loads not included in the book by W. Smith and others in the general class of the .50-170, the .45-165, etc. He says he will reply to all letters received.

* * *

L. E. Wilson, who furnishes those useful shell trimmers and headspace gauges, is interested in a new wildcat, following his W.-W. Arrow. This one was initiated by Captain **Fred A. Seegert,** of Santa Barbara, Calif., when he asked Wilson to make up the original reamers for it. It is the .348 Winchester rimmed case necked down for .30-caliber bullets and, apparently, giving .30-'06 ballistics. Wilson was sufficiently impressed with the idea to tool up for it and to release this announcement. I like the idea of using this strong modern cartridge case because heavy loads will inevitably be used. Also the rimmed case will be used in the stronger, heavier, modern-steel falling-block actions. One experimental load went as high as a case full of HiVel No. 2 (61 grains) behind the 172-grain M1 bullet without shedding the primer. The load regularly used behind this bullet in testing was 47 grains and the R.A. No. 8½ primer. It is called the Seegert-Wilson .30-.348, or S.-W. .30-.348.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising plus disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an *open* market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 10 cents per word, including name and address—minimum charge $1.50.

5. How to Count Numerals, Etc.: Groups of figures are counted as one word (examples: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (examples: W. H. Smith; H.B., meaning heavy barrel; H.P., meaning high power). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—exception: a phrase such as "write for catalog" or "details on request" may be used when listing quantities of similar merchandise or real estate.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning reasonable hard surface, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting; POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid", as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair prices paid" or "state price wanted" may be used.

9. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraphic replies.

10. Requesting Privilege of Examination: Purchasers desirous of examining merchandise before acceptance should request shipment by express, C.O.D. with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. OPA Ceiling Prices: An agency of the Federal government has legally fixed the prices of various commodities, including individual sales of ammunition (handloads and government calibers excepted). Attempts to evade ceiling prices are violations of Federal statutes. It is physically impossible for us to check advertised prices against legal ceiling prices. This is the responsibility of the advertiser, and advertisements offering to buy or sell merchandise at higher than legal prices will, when called to our attention, subject the advertiser to the penalties mentioned in paragraph 1.

12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such license or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These include machines or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks*.

14. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing. Spell out all descriptive words; avoid abbreviations.

15. Closing Date: The closing date for all advertisements is the 5th of the month preceding month of issue. However, the *volume* of advertising we can publish monthly is limited and the quota is usually filled prior to the closing date. Ads will be accepted in the order received.

FOR SALE

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

INDIAN RELICS, CONFEDERATE BILLS, coins, minerals, gems, fossils, crystals. Illustrated catalog 5¢. 100 ancient arrowheads, $3.00. H. Daniel, Hot Springs, Ark. tf

CHECKERING TOOLS, HAND MADE BY checkering expert. Set of three—Checker, Border and Cleaner; also directions, complete, $2.75 postpaid. Warner's, 354 Hamilton Avenue, Norwich, Conn. tf

KILBOURN—HORNET, DEADLY ON CHUCKS and crows. 3,000 F.P.S. velocity with 45 gr. bullets, 2,900 F.P.S. with 50 gr. Your Hornet rechambered $5.00. Magazines altered for long bullets, Winchester, Savage, $2.00. Lysle D. Kilbourn, New Hartford, N. Y. tf

PATENTS—LOW COST, EASY TERMS. BOOK and information free. Highest references. L. F. Randolph, Dept. 370, 416-5th St., Washington, D. C. tf

PREHISTORIC STONE TOMOHAWK, 75¢. 100 good prehistoric arrowheads, $3.00. 10 tiny perfect bird arrows, $1.00. Spearhead 25¢ list free. Caddo Trading Post, Glenwood, Arkansas. tf

GUNSMITHING, RESTOCKING, REBLUING. flintlocks restored. Bailey, Lisbon, N. H. 1-45

ARTISTIC ENGRAVINGS ON FINE GUNS; game scenes in relief; gold inlay; scroll work; etc. Folder on request. A. Griebel, 4724 N. Keystone Ave., Chicago, Ill. 7-44

THE REVOLVER TIMING RECORD—A 10-INCH RCA-Victor phonograph record. Practice timed and rapid fire anywhere, BY YOURSELF. Nothing to watch—just LISTEN. For dry shooting, basement and outdoor ranges. One side 10 second timing, other side 20 second timing. Plays on any phonograph, $1.50, postpaid. The Original Sight-Exchange, Box J, Paoli, Penna. 1-45

FOR SALE—GOLD & SILVER PLATING ONLY, triggers 24K plate, $3.00. Quick service, Lee Lassner, 88 No. Fair Oaks, Pasadena 1, California. 8-44

REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics. Catalogue 5¢. Cowboy Lemly, Las Cruces, New Mexico. tf

COMMANDO KNIVES, 8" RAZOR SHARP, double edge blade of finest steel, knurled metal handle, ball pommel, $12.00. 8" double edge, knuckle duster, walnut grip, $12.00. Sheath and thong furnished. Louis P. Loutrel, 95-16 105th St., Ozone Park 16, New York. tf

CHRISTY GUN WORKS, 874-57TH ST., SACramento, California. tf

BINOCULAR TRADING POST, SEND FOR LIST of reconditioned binoculars, including our booklet "The Use and Care of Binoculars." Binoculars cleaned and repaired. Established 1925. Alignment corrected to 1/1000 on our special collimator. Mail your glass for estimate. Mirakel Repair Co., Mount Vernon, N. Y. 11-44

FOR SALE—CATALOG JUST OBTAINED A COLlection of 2000 Modern and Antique handguns, send coin 25¢ for your copy. Colt Officers Target Model Revolvers 38 caliber 6" heavy barrel, perfect $75.00. 22 caliber Single shot Target pistols, custom built by S. H. Croft, 12" barrel by Peterson, double set triggers, large thumb rest, fine walnut stock by Neil Houchins, adjustable sights, excellent condition. $100.00, Colt Officers Model revolver 32 caliber heavy barrel, target sights, like new, $75.00, Colt Super 38 Automatic pistols, excellent $65.00. All goods shipped express charges collect. Public Sport Shops, R-73, 13 S. 16th St., Phila., Penna.

IF YOUR MAGAZINE IS LATE

Please bear with us if your copy of THE RIFLEMAN arrives later than you have been accustomed to receiving it. In normal times the magazine is mailed on a schedule providing for delivery during the first week of the month of issue. We still mail according to a plan designed to insure simultaneous deliveries throughout the United States; but the wartime strain on publishing, postal, and transportation facilities makes it impossible to guarantee normal-uniform deliveries. Only a return to normal conditions can remedy the situation. We beg your indulgence, therefore, and ask that you wait until the twentieth of the month before reporting non-receipt of the current issue.

NEW S&W .38 SPECIAL POLICE 4", HOLSTER, 200 rounds. First check, $65.00 takes it. J. C. Pike, 800 23rd St., West Palm Beach, Florida.

COLT .22 CAMP PERRY MODEL, EXCELLENT, Heiser holster, 350 rounds, L.R. cartridges, $55.00. Colt Pocket Positive .32 Police, perfect, in factory box, 35 cartridges, $45.00. Colt .25 automatic, good, 25 cartridges, $20.00. First money order. Alex Kaufman, 1164 East 54th Place, Chicago 15, Illinois.

COLT AND REMINGTON CAP AND BALL REvolvers, Pope and Schoyen Schuetzen rifles. A request brings list. E. C. Ward, 406 Wilcox Bldg., Los Angeles 12, California. 9-44

WINCHESTER MODEL 65, .32 W.C.F., WITH Lyman 56 receiver sight and sling. Perfect, fired only 100 rounds, with two boxes each of 115 grain Winchester Super Speed soft point, and 80 grain Winchester S.S. copper jacketed hollow point, $55.00. A. E. Somers, Waldhiem Road, Fox Chapel, Penna.

"CROW CALLING" READERS IN 41 STATES using 20,000 words detailed illustrated instruction. We averaged 63 crows in 14 shoots, high of 104. You can, too. $1.50, postpaid. Bert Popowski, 3408 Jones, Omaha 5, Nebraska.

BINOCULARS, 6X25 BAUSCH & LOMB, CENtral focusing, case, very good, $55.00. Richard Kruckemeyer, Morrow, Ohio.

HI-STANDARD MODEL E, EXCELLENT EXcept inconspicious holster wear on barrel, 200 rounds ammunition, $65.00. Harold Knight, East Jaffrey, N. H.

SLIGHTLY DEFECTIVE BISHOP RIFLE STOCKS Monte Carlo comb, cheekpiece, semi-finished semi-inletted, without tenite fitting for Krag, Enfield, Springfield, Mauser. Price $2.50, postage paid. Norvel Leeders, Warsaw, Missouri. 7-44

ASA GALLUPE OF FORT FAIRFIELD, MAINE, has a large supply of rifles, shotguns, handguns and ammunition and will be glad to send a list on receipt of self-addressed envelope. 8-44

GUNS, SCOPES, SHOOTING EQUIPMENT. SEND 25¢ coin or stamps for complete descriptive listing. Photograph showing some of the items. Louis Ringuette, Grants Pass, Oregon. 7-44

RIFLE STOCK BLANKS, WELL SEASONED India rosewood, $6.00 and up, or will trade. Frank Foster, Clovis, New Mexico. 9-44

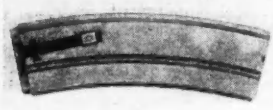
FOR SALE—WINCHESTER 70, 30-06, WEAVER 330C, Stith mount, all new, $150.00. Ammunition available with rifle. John Miller, Kingwood Park, Poughkeepsie, N. Y.

THE MODEL 1944

JOHNSON LIGHT MACHINE GUN OR MACHINE RIFLE

Caliber .30-'06—Weight 14½ lbs., with mount
Capacity 25 shots

JOHNSON AUTOMATICS
INCORPORATED



20-shot detachable box magazine—horizontal feed

Write for FREE illustrated folder of General information on Johnson Arms

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NEW!!

MILITARY SMALL ARMS CHART No. 1

Illustrates and describes with line drawings to scale, sixty rifles, pistols, revolvers, and sub-machine guns of the world at war, with specifications.

Also includes halftone illustrations of the Johnson Model 1944 Light Machine Gun.

Printed on paper—size 28 x 42 inches.

AND

MILITARY SMALL ARMS CHART No. 2

35 similar drawings of heavy and light machine guns, also with specifications. Printed on paper—size 28 x 42 inches.

BOTH CHARTS SENT POSTPAID FOR $1.00

FIGURED WALNUT RIFLE BLANKS FROM $3.50—Specials from $10.00. Every blank guaranteed, delivered free. Horn tips 50¢. Mitchell Bosly & Co., Ltd., Little Shadwell Street, Birmingham, England. 7-46

AN IMPORTANT COLLECTION OF FORTY fine old target rifles, Ballards, Sharps, Maynards, Winchesters and others, belonging to the late Charles Kelly of Boston, will be described and priced in our eleventh edition arms catalog. Send twenty-five cents for your copy. Kimball Arms Company, Woburn, Mass. 7-44

OREGON MYRTLEWOOD GUNSTOCK BLANKS. "The Most Beautiful Wood That Grows." Prices $3.00 to $10.00. Catalogue upon request. Beaumont's, The House of Myrtlewood, Marshfield, Oregon. 9-44

WORLD WAR .30-'06 SPRINGFIELD, 20-SHOT magazine, $5.00. B. K. Wingate, 470 Parkway, Trenton, N. J. 6-44

NO NEW WORK CAN BE ACCEPTED UNTIL further notice. We are swamped. Thanks for your patronage. Bayer's Gun Shop, Walla Walla, Washington. tf

COLT ARMY 45, MODEL 1909, 5½" BARREL, double action, blued, very good, $25.00. H&R 32, model 1888, 3¼" barrel, double action, nickel, excellent, $15.00. H. O. Walters, Box 999, Toledo. Ohio.

REDFIELD JR. SCOPE, RINGS FOR WEAVER, new, $4.25. 48 WJS for model 70, $10.00. New. Money orders. Robert Cross, Milbank, S. Dakota.

WINCHESTER 22 HI-SIDE, VERY GOOD INside, good outside. Scope blocks Lyman adjustable rear, gold bead front, special stock with cheekpiece, price, $40.00. Harry Leies, 134 West Liberty St., Wooster, Ohio.

PLAN FOR PLENTY AMMUNITION, GUN AMmunition list included, 25¢. Frank Farish, Vicksburg, Miss. 9-44

HAMMERLUND 120X COMMUNICATION RECeiver, 12 tube, new condition, has everything, noise eliminator, band spread, phrasing beat oscillator, first money order $165.00 takes. H. C. Osborn, 1120 Broadway, San Antonio 2, Texas.

H&R SPORTSMAN DOUBLE ACTION, GOOD TO excellent, $22.00. 30-40 Krag as issued, sling, excellent, bayonet and scabbard, 194 rounds metal jacketed, some split necks, $48.00. 20 rounds .30 caliber Springfield 1906 soft points 220 grains, $2.00. 45-70 Springfield good to excellent, bayonet, scabbard, sling, $12.00. 33 rounds .45-70, 500 grains, 40 rounds .45-70, 410 grains, 7 empties, $5.15. 50 rounds 41 short R.F. kleanbore, $1.50. Model 98, 8mm Mauser KAR converted to sporter, mounted, excellent, 3X post scope, new sling, $25.00. 82 rounds 8mm Mauser metal jacketed, 8 clips, 120 rounds empties fired once, $8.96. 225 empties .32 Colt auto., fired once, $2.25. Only money order, F.O.B. Atlantic City, N. J. TRADE—For .22 L.R. cartridges in part or whole on any above at 34¢ per box. Dr. G. Reiter, 3123 Atlantic Avenue, Atlantic City, N. J.

S&W K-22 EXCELLENT WITH HOLSTER AND 500 L.R. $65.00. 32 caliber Short Iver Johnson good with 30 cartridges, $10.00. 32 caliber Colt pocket 60 cartridges, fair, $10.00. 32 caliber Colt Police 30 cartridges, good, $15.00. Harry Ladwig, 1310 S. 19th St., Milwaukee 4, Wisconsin.

CUSTOM SHARPS BORCHARD K HORNET, perfect, $75.00. M63 Winchester .32-20, very good, $35.00. Ralph Brisco, R. D. 1, Pine City, New York.

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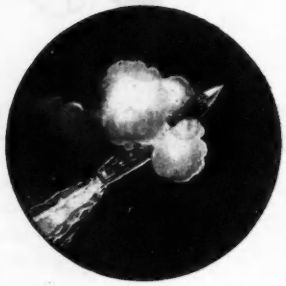

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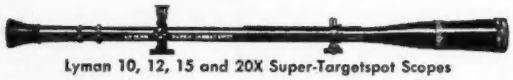

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BELGIUM BROWNING O&U 12-GAUGE. 30" full, ventilated rib, twin single triggers, ejectors, pad, canvas case, newly blued, very good to excellent, $150.00. Hi-Standard Model D. 500 rounds ammunition, holster, excellent, $50.00. Stith mount for Weaver M70, $12.00. Weaver 440C, post $37.50. G. F. Snider, Box 213, Connersville, Indiana.

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FOR SALE—BELGIUM BROWNING 12, SOLID rib, 26" barrel, Cutts, full and skeet tube. Very good plus, 100 shells, $95.00. Johnson 1.1 motor good, $45.00. Drafts, no C.O.D.'s. O. W. Rewey, Marshfield, Wisconsin.

FOR SALE—54 WINCHESTER .30-'06 UNFIRED, case, box ammunition, $100.00. Colt .32 automatic unfired, box ammunition, $35.00. Colt .25 automatic, new, 20 shells, $25.00. 41 Remington Derringer, unfired, $20.00. Paul Richards, New London, Ohio.

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FOR SALE—HARRINGTON & RICHARDSON double action Sportsman revolver, perfect, 500 long rifle cartridges, $45.00. Colt Police Positive, .32 S&W short or long, 4" barrel, latest model, pocket holster, 50 cartridges, appearance v.g. or better, otherwise perfect, $48.00. Iver Johnson Super shot, perfect, 500 long rifle cartridges, $40.00. 9mm. Luger, 4" good or better, 50 fresh cartridges, $38.00. American Eagle Luger, 30 caliber, 5" barrel, appearance v.g. or better, slight roughness in bore, no cartridges, $50.00. Detective Special, latest model round butt small scar at muzzle on outside edge, otherwise perfect, 50 cartridges, holster, $68.00. Stevens tip up pistol, .22 caliber, 12" barrel, fair or better, 100 cartridges, $10.00. Robert Haelig, Boundbrook, N. J.

FOR SALE—ITHACA 37R-12-28 MOD, EXCELlent in and out $70.00. Winchester Model 12-16-28 full also same model excellent in, good out, $50.00 each. Savage 99-300 Marble rear peep, sling, recoil pad, excellent in and out, two boxes shells, $75.00. Winchester 94 take down 38-55, excellent in, good out, box shells, $45.00. Milo Hill, Caledonia, Ohio.

FOR SALE—AMMUNITION FOR SALE PRICED per box .275 H&H Magnum 175 grain S.P. $3.50. 40-72 Winchester Soft Nose, $1.75. 41 Swiss rim fire shot cartridges, $1.40. .32 Long rim fire shot cartridges, $1.20. 32 Short rim fire, lead, 90¢. .30 or .32 Remington rimless soft nose, $2.20. 30-06 Govt. boattail 172 grain M.P. bullet, $1.75. .44 S&W Special M.P. lead bearing $2.75. .405 Winchester soft nose, $2.40. .44 S&W Special, Nublend powder, $2.50. .35 S&W Auto, $2.00. .41 Italian Vertelli center-fire, $1.40. .38-40 W.C.F. shot cartridges, black powder, $2.00. Hudson Sporting Goods Company, R-52 Warren St., New York.

FOR SALE—$15.00 GOVERNMENT NEW STEEL frame chair, cushion seat, for pilot house or other purpose, seven positions, height, forward, backward, cost $50.00, limited supply, send for photo. Weil's Curiosity Shop, 12 Strawberry St., Phila., Penna.

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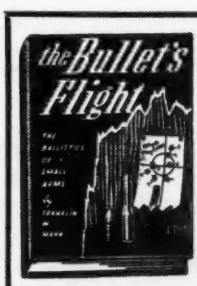

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H&R 999 DOUBLE ACTION SPORTSMAN BRAND new, never shot, 200 L.R., $39.00. S&W .32 hammer break open, nickel, new barrel, otherwise excellent, 50 Kleanbore, $22.00. 100 new factory .38 special, $4.50. B. T. LaPierre, 1 Reservation Road, Smiths Ferry, Holyoke, Mass.

K22, GOOD PLUS, SANDERSON, $55.00. HIGH Standard C, 6-¾ Murad, very good, $45.00. Winchester 70-06, Weaver 330X, Stith, very good, $150.00. S&W .357 Magnum, 6", very good, $110.00. W52, Speedlock, sling, Fecker 10x case, $100.00, very good. W64 DeLuxe .30-30, sling, rear peep, very good, $85.00. Luger 7.65, 4¾ barrel, DWM, very good, box ammunition, $48.00. Potter automatic tool, 38S, .30-'06, $70.00. WANT—K32, W70, Weaver 440, Enfield, Springfield. Almon Williams, Berea, Ohio.

PERFECT SPRINGFIELD SPORTER, NEW DCM barrel star-gauged, .3002" lands diameter, assembled and head-spaced by Sedgley, fired five rounds only to bed stock, receiver over 1,300,000, Sedgley Safety bolt, new Lyman #48 rear, new DCM Sporter stock, remodeled, outside band removed, checkered forearm, pistol-grip, quick detachable swivels, $130.00. 295 rounds late .30-'06 ammunition, preference given rifle buyer, 8½¢. Winchester Hi-Wall .38 WCF .38-40 full octagon barrel, bore fair, 30" length, action excellent, buckhorn rear, bead front, 50 (1 box) cartridges, $30.00. Colt Army .38 Special, 6" barrel, bore and action excellent, finish good, regular sights, box (50) late cartridges, $57.50. Type C Springfield stock only, pre-war, complete with upper handguard, bands, swivels, screws, White Line recoil pad, butt extension 1", Weaver T2 mount, screws, perfect, $20.00. Ideal tools .30-30, $6.50. #6 tool .38-55 finish fair, excellent mechanically. $8.50. Few other caliber accessories, moulds, list. Capt. Charles Lewin, Wilson Road, Fall River, Massachusetts.

FOR SALE—AMMUNITION — FOR FARMERS, SEND FOR FORM L286. Hudson Sporting Goods, R-52 Warren St., New York.

FOR SALE—ONE GOOD .300 PMVF MAGNUM WCF 70 Target grade rifle, dies for Pacific tool, 100 match cartridges, scope blocks and bead front. First money order for $200.00 takes outfit. Vard Inc., 2961 E. Colorado St., Pasadena 8, California.

LARGE STOCK OF AMERICAN & EUROPEAN Arms, send twenty-five cents for our eleventh catalog featuring three New England collections which have just come in. We buy whole collections or single pieces, fair prices paid. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—WINCHESTER MODEL 70 SUPER Grade 270, Lyman Alaskan scope, Griffin & Howe mount, mounted and sighted at factory. Unusually beautiful stock with standard dimensions. Fired only 18 times, almost perfect condition, $375.00. G. R. Starkey, Kerrville, Texas.

FOR SALE—ONE LEFEVER TRAP GUN, 12-gauge, 32" barrel, very good, $35.00. A. T. Van Valkenburg, 228 Lafayette Avenue, Darby Post Office, Collingdale, Penna.

B.S.A. NO. 12 CONVERTED TO HORNET, BSA iron sights with elevation and windage, good or better, with 50 factory loads, $60.00. Stevens 22 Walnut Hill, speed action, 24" barrel, 17A front, Lyman tang rear, scope blocks, case, good, $50.00. Lyman 438 Field Scope plain mounts, excellent, $25.00. Wardrobe trunk, Wheary, 5 drawers with inside locking bar, 10 hangers, shoe box, 42" high, used little, good, $42.00. Harry M. Wheat, 4633 S. First St., Louisville 9, Kentucky.

NEWTON-ACKLEY VARMINTER, HENSOLDT, Dot, beautiful inlaid stock, fired less than hundred times. Excellent, $240.00. WANT—70 in .250 or .257. Henry Persons, 403 East 10th, Anniston, Alabama.

25 COLT AUTOMATIC GOOD, NEW BARREL, two boxes cartridges, extra magazine, $26.00. Herbert Baurle, 4545 Keystone Ave., Chicago, Illinois.

PERFECT MODEL 99 R, .300 CALIBER SAVAGE rifle in factory box, never fired, $95.00. Remington Model 8, .25 caliber automatic rifle, excellent in, fair out with 3 boxes shells, $85.00. S&W Model 1917 revolver fair, $37.50. Colt Officers' Model .38, new 7½" barrel, rest of gun good, $55.00. Colt .32 automatic, excellent in, good out, $35.00, 25 shells. Western Field 12-gauge pump, latest model, excellent, $65.00. Send $3.00 for C.O.D. examination. R. S. Cook, Alpena, South Dakota.

FOR SALE—52 STANDARD WINCHESTER LYman 17A front, Lyman 52 extension rear, excellent, money order, $80.00. Stamp please. Louis Longcore, Lawrence, Michigan.

IPCO-RELOADING LUBRICANTS—IPCO COLLOidal wads, (ribbon form) used at base of bullet, are an investment in better groups, furnish a gas seal, retarding throat erosion. IPCO Colloidal Bullet Lubricant (stick form) for your lubricator, insures barrel protection, retarding or eliminating fouling. Extend life of your rifle barrel with Ipco Products. Boxes $1.00 each, delivered. Industrial Products, 102 Pearl, Boston 10, Massachusetts.

HANDGUN SALE—COLT .38 POLICE POSITIVE Special, 5" barrel, honed action, extra target grips, cartridge belt size 38, holster, all very good, 100 rounds, $50.00. Colt .38 D.A. Army, 6" barrel, reblued, good, 100 rounds, $35.00. Colt .380 automatic reblued, bore fair, 50 rounds, $30.00. Colt .32 automatic, reblued, bore fair, holster, 30 rounds, $30.00. Colt .32 automatic, good, 30 rounds, $30.00. Mauser .32 pocket automatic, good, 30 rounds, $30.00. Colt .32 New Police (old model) 4" barrel, reblued, good, 100 rounds, $20.00. 45 Colt Bisley 4¾" barrel, reblued, good except all lettering off barrel, numbers O.K., 100 rounds, $45.00. Stoeger .22 single-shot match pistol, German importation, good, $25.00. Colt .25 automatic, very good to excellent, 50 rounds, $30.00. Colt S.A.A. .22 conversion, good job, accurate, $45.00. S&W .22 short tip-up, 1860 patent, ivory grips, fully hand engraved, nickel, collector's piece, $25.00. Remington "Smoot", .30 R.F. short, good, collector's piece, $12.75, Smith's Patent .32 R.F., good condition for old gun, $7.50. All sales are on satisfaction or money back guarantee. Price f.o.b. Brown and Horton, Ridge Avenue, Natick, Massachusetts.

WINCHESTER M62, .22 PUMP, EXCELLENT IN, very good out, $22.00. M70 Hornet bolt shell, excellent, $4.00. Samuel Levin, 3612 Eldorado Avenue, Baltimore, Maryland.

FOR SALE—COMPLETE BED EQUIPMENT 1939 Nash-Ambassador, six mattresses, good condition, $35.00. William Hageman, 361 East 158 Street, New York City, N. Y.

FOR SALE—ONE OFFICIAL POLICE .32-20 COLT 6", one Colt Woodsman 6", both excellent, $65.00 each. Ivan Hall, Alexandria Bay, New York.

FOR SALE—54 WINCHESTER .22 VARMINTER with 48 Lyman, new standard weight barrel, balance very good to excellent. $100.00. WANT—ribbed barrel for Browning 12-gauge automatic. Nelson Cole, Belvidere, Illinois.

30-'06 SPRINGFIELD SERVICE RIFLE, #1469172, excellent, $65.00. Another, new barrel chambered by Gipson, $60.00. Type "T" Bull Gun, no sights, new, $85.00. John Gschwind, 4124 N. Leamington, Chicago, Illinois.

FOR SALE—GUN COLLECTION—4 KRAGS, Mauser Enfield, 99 Savage 303 Belgium Mauser, 95 Steyr. Description and prices on request. Walter Whitcomb, Gladstone, Oregon.

EXCELLENT WINCHESTER 70, .30-'06 COMplete with 29S scope, 100 rounds assorted ammunition $125.00. Winchester 65, .218 Bee, perfect, 75 factory loads 35 empties, $60.00. Perfect Savage 19 Target rifle 500 rounds ammunition, $35.00. Alexander Irons, 25 Howard Drive, Williamsville 21, New York.

FOR SALE—ZEISS ZIELKLEIN SCOPE, EXCELlent inside, very good outside, no mount, $60.00. DCM Sporter, perfect in, excellent out, serial over 1,495,000, $110.00. Lawrence Westhoff, 1926 9th St., Bremerton, Washington.

FOR SALE—ENFIELD EDDYSTONE, $40.00. Krag carbine as issued, $30.00. 45-70 Springfield as issued, $15.00. All very good. Hall Flintlock rifle, new, $46.00. Hall percussion rifle very good bore, $15.00. C. M. Kountz, Box 311, Pittsburg, California.

FOR SALE—SPRINGFIELD 22, VERY GOOD condition, very accurate barrel selected at Armory, scope blocks, 17A front set inserts, micrometer rear, stellite trigger face, extra magazine, firing pin, extractor, 3 boxes Western Super Match. Money order, $59.50. E. H. Henderson, 1075 Heil Avenue, El Centro, California.

PERFECT COLT ACE, 200 L. R. CARTRIDGES and holster, $80.00. Harold Marshall, 352 E. Fortification, Jackson, Mississippi.

FOR SALE—CATALOG JUST OBTAINED A COLlection of 2000 Modern and Antique handguns, send coin 25¢ for your copy. Wesley Richards 12 ga. S.B. Trapgun, ventilated rib, engraved action Polychoke, excellent condition, $225.00, Shotgun hammer type Life Pigeon Gun by Wm. Ford, custom made in England, 32" fluid steel, modified and full choke, like new, $125.00. Browning over and under 12 ga. 32" full choke barrels, ventilated rib, single trigger automatic ejector, like new, $185.00. All goods shipped express charges collect. Public Sport Shops, R-73, 13 S. 16th St., Phila., Penna.

COLT .38 SPECIAL OFFICERS' MODEL TARGET, new 5 inch barrel, factory check-up, excellent, #559,608, adjustable bead sights, 71 cartridges, satisfaction guaranteed, $65.00. Ralph Doud, Boulder, Colorado. Member.

COLT .38 MILITARY AUTOMATIC, ROPER sights and grip, very good out, excellent in, 100 cartridges, $55.00. Marlin M94, .25-20, 20", excellent in, very good out, 35 Kleanbores, $35.00. Major C. R. Toy, Swannanoa, North Carolina.

COLT .45 D.A. AS ISSUED, NEWLY BLUED, $50.00. S&W .45 D.A. with King short action, wide hammer spur and trigger shoe, adjustable target sights, $67.50. Winchester 70, 2R by C. C. Johnson, built on walnut cheekpiece standard sights, blocks, sizing die, cases, bullets, primers, sling, $100.00. All very good to excellent. Litschert 12x7/8" scope, ¼" click mounts, $60.00, perfect. TRADE—116 primers even for 115 or 8½, also .22 MJ bullets for L. R. primers. C. M. Rardin, R.R. 19, Box 614, Indianapolis 44, Indiana.

FOR SALE—GEBBY VARMINTER, 54 ACTION, inside perfect, outside good, 80 loaded shells, 150 empty, 1100 primers, 800 bullets, 4 cans powder, Ideal powder thrower, B&M tool, sold as unit only, $175.00. M. D. Pendleton, 1917 Second Avenue, North, Birmingham 3, Alabama.

SELL—22 S&W MODEL 1891, 8-INCH, FRANZITE stocks, excellent, $35.00. New rubber stocks for .32 and .380 Colt automatic, 50¢ postpaid. WANT—50-70 mould, tool and cartridges. S. L. Pierson, Box 1007, Oklahoma City.

SELL—M99, 219 ZIPPER, HEAVY PERFECT barrel, very accurate, wood poor, 385 factory ammunition, $100.00. Write for details. C. G. Stetson, 46 Robert Treat, Milford, Connecticut.

ITALIAN 6.5MM MANNLICHER-CARCANO, carbine, as issued, good, almost new, $30.00. S&W, 38 D.A., topbreak, 3¼", nickel, good plus, with cartridges, $20.00. Officers' Model .22 #S306, excellent in, fair to good out, $55.00. 44 S&W Special 6½" excellent, with holster and 200 Kleanbore, $65.00. Harold Barnhart, Box 13, Chillicothe, Ohio.

12" BROWN SHARPE VERNIER CALIPER WITH case, never used, $36.00. 44 S.A.A. 7½" barrel, barrel new, white grips, excellent, $47.00. One Federal dial indicator #C5M jeweled bearings, new, $15.50. Lawrence Thoe, 5464 Village Green, Los Angeles, California.

M70, 30-'06 GOOD, $93.00. THREE 300 SAVages, very good to perfect, $75.00 up. M14 Remington, excellent, 35 caliber, $75.00-$85.00. Winchester M94's, 32 Specials, perfect, .30-30's, very good .38-55's, good, $45.00 to $65.00. M52 Winchester, perfect, $75.00. Winchester M12's, good, $60.00-$175.00. Ansley Fox 12-gauge Krupp barrels, v.g., $125.00. Fox Sterlingworth 12-gauge, very good, $60.00. Other shotguns, $35.00-$60.00. Shells for all. Stag 3X scope, mounts for 54, 30, 70, $65.00. Zeiss-B&L 6x30's - 7x35's, $75.00-$145.00. Neptune 16-HP outboard $135.00. Hunting knives $5.00. Single barrel shotguns $10.00-$25.00. Other rifles, shotguns, big game scope, etc. Air Mail stamp for list. WANT—70 Swift perfect, targetscope 70 mounts, ammunition. Alaskan allweather, 70 mounts, 70, 270 ammunition. .22 rifle scopes, mounts. Description, price or trade first letter. All items listed for trade are very good or better. Way's, Salunga, Pa.

FOR SALE—410 SKEETER MODEL IJ DOUBLE hammerless, automatic ejectors, etc., still in factory grease, $60.00. Lester B. Powell, 1823 L St., N. W., Washington, D. C. Life Member.

M99 SAVAGE .300 SOLID FRAME, $96.00. MARlin .30-30 carbine, $55.00. Both guns excellent with two boxes shells. New Moviematic camera, no film, $17.50, 219 Zippers, $1.65 box. WANT—Colt SA Frontier 5½", 7½", .38 Special, .45 caliber. Perfect Colt Woodsman 6½", Winchester M63 .22 automatic, full description, price first letter. Robert Ellithorpe, 2927 Rollingwood Drive, Richmond, California.

FLY-ROD SUPERLATIVE, BERNARD ENGLISH double built, 8½-5 oz., 3 tips, $65.00. Wm. D. Bergman, 3620-16th St., N. W., Washington, D. C.

WINCHESTER HB LYMAN 48, EXCELLENT, $85.00. A. L. Sebastian, North Wilkesboro, North Carolina.

REMINGTON 37 RANGEMASTER, FACTORY sights, excellent in or out, $80.00. Elwin Archambault, 1518 Fremont Avenue, North, Minneapolis, Minnesota.

LUGER 9MM, EXCELLENT, 8" BARREL, HOLster, $50.00. R. A. Simpson, 1407 Spring St., Parkersburg, West Virginia.

ENFIELD SPORTER, NEVER USED, GRIFFIN & Howe conversion 48 Lyman rear, gold front sight. Swivels, sling, Winchester rod, brushes, sheepskin cover, box .30-'06 cartridges, $150.00. Dr. Zimmerman, 137 West 76th St., New York, New York.

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ITHACA DOUBLE 12, S.E., EXCELLENT, S.S.T., beavertail, ventilated rib, 8#, auto ejector, right 60, left 70, 32", 14½-15/16 x 2 rubber pad, pistol grip, first money order $225.00. W. H. McCreery, La Junta, Colorado.

OFFICIAL POLICE 38-6 PEARL GRIPS, PERfect, hundred Kleanbores, $80.00. Twenty Ithaca featherweight pump, Bradley ivory bead, Poly Choke, perfect, hundred Super X $95.00, both absolutely new condition. Two Custom rebuilt Krags, 20" Pacific ramp, Redfield 102, Hart flush magazine, recoil pad, ivory trimmed pistol grip and fore-end, excellent, 40 Kleanbores, $60.00. 24" Lyman ivory ramp, Lyman 48, pistol grip, excellent, 40 Kleanbores, $60.00. T. A. Wallingford, Carbondale, Pa.

SMITH & WESSON .22 HAND EJECTOR 3" nickel, excellent, $36.50. 32 Colt auto., good, $19.50. Zeiss Ikon camera, good, $19.50. Stewart, tenor banjo, good, $13.50. T. H. Turner, Seaford, Del.

TRADE 300, .224 BULLETS FOR 400, 6½ PRIMers. SELL—Jig saw and belt sander, complete with motor and belts, $15.00, each. Flexible shaft assembly, complete with motor and portable caster stand, $20.00. Fred Ernst, Washington, Missouri.

SELL—70 WINCHESTER (SIGHTS) NEW 77 AND 48 WJS, $17.00. 62 issues of RIFLEMAN, $6.50. L. Walter Douglas, R. D. #2, Red Lion, Penna.

FOR SALE—BINOCULARS—CARL ZEISS JENA DF 6X, strap and eyepiece cover, individual focusing, excellent hunting glass. First money order, $75.00. Roy W. Carlton, 1960 Alder, Eugene, Oregon.

PERFECT COLT .32 OMT 6 INCH H.B., ROPER grips $60.00. 380 Colt automatic, as new, $50.00. Colt .38 pocket automatic, excellent, $40.00. Colt 1911 Army model .45 automatic, excellent, $50.00. Colt SA Frontier, .44-40, 7½B, excellent, $40.00, box cartridges with each gun. 18 size open-face 21 jewel Hamilton RR watch, $40.00. 8 size open-face 21-jewel Elgin, $30.00. T. C. Milam, 619 South 21, Ft. Smith, Arkansas.

FACTORY, PERFECT OFFICERS' MODEL .38 Special HB regular and Sanderson's grips, sheepskin holster, Ideal reloading tools, 3 boxes Kleanbore, $89.00. Max E. Rovick, 337-51st Avenue, Bellwood, Illinois.

SAVAGE 23-B, NEW, $55.00. MARLIN .25-20. Wee Weaver scope, good, $39.00. A Cosentino, 1511 Foster Place, Steubenville, Ohio.

WEAVER SCOPES, 330S, $29.70; 440, $35.20. T mount, $2.20; B mount, $6.60, Stith mount, $12.00. Allinson & Houston, Santa Maria, California.

LARGE STOCK OF AMERICAN & EUROPEAN Arms, send twenty five cents for our eleventh catalog featuring three New England collections which have just come in. We buy whole collections or single pieces, fair prices paid. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—LIST OF ARMS BOOKS, MANY rare. Stamp, please. Wm. Locke, 3607 Ault Park Rd., Cincinnati 8, Ohio. 8-44

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FOR SALE—$5.00 GOVERNMENT FIBRE DESK trunks with partitions and locks. Suitable for medical officers especially, cost $30.00. Weil's Curiosity Shop, 12 Strawberry St., Phila., Penna.

FOR SALE—WEAVER SCOPES IN STOCK, 330S, $29.70, 440S, $35.20 specify cross-hairs or post. 1X shotgun scopes, $20.35. Mounts additional T $2.20 B $6.60. Stith $12.00, $11.00 with scope. S. A Wentling, Palmyra, Penna.

FOR SALE—THREE PERFECT 30-06 PMVF model 70 rifles, dies for Pacific tool with each, 100 western match cartridges with each, Lyman 48 and 77 on each. First money order for Standard grade outfit $180.00, Target grade outfit $230.00, Bullgun outfit $255.00. Vard Inc., 2961 E. Colorado St., Pasadena 8, California.

FOR SALE—SMITH & WESSON, 22 CALIBER top break perfected single shot, target pistol, 10" barrel, perfect in, excellent out, with 1,000 rounds long rifles, $75.00. Smith & Wesson, 22 caliber straight line, side break, 10" barrel, perfect with 1,000 rounds long rifles, $85.00. Winchester Model 75, 22 caliber target rifle, perfect with 1,000 round long rifles, $75.00. Rudolph's, Atchison, Kansas.

FOR SALE—WINCHESTER 70 BULL BARREL and stock only, 30-06, new and perfect, barrel only $36.00. Marksman bull stock $17.50. 420 round issue 30-06, mostly 35-38, $25.00. Leslie Lindahl, Central City, Nebraska.

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16-GAUGE BELGIUM BROWNING WITH HAWkins pad and Foly Choke. Excellent in, very good out, with ten boxes 7's and 8's and one box #6 Nitro, price, $100.00. D. Wyatt, Licking, Missouri.

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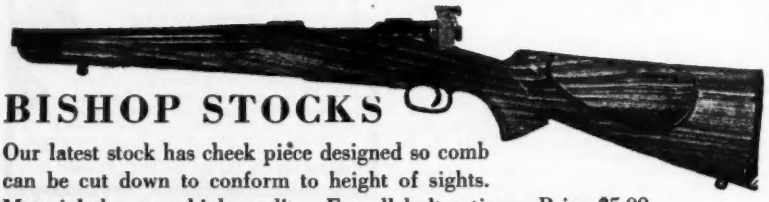

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SALE—8 X 40 ZEISS "DELACTIS" IND. FOC., case, perfect, $165.00. Griffin & Howe .250-3000, 26" barrel, semi-target, sling, front ramp, Lyman blocks, 125 reloads, almost perfect, $100.00. Model 70, 257 Roberts Standard, Lyman blocks, 6 boxes factory ammunition, 100 cases, 100 bullets, sling, perfect, $125.00. WANT—High grade double, 12-gauge 26" barrel. Oscar Szigeti, 78-11 35th Avenue, Jackson Heights, Long Island.

FOR SALE—ITHACA M37, 12-GAUGE, MOD., rib, 2½" drop, excellent. Money order, $55.00. Charles Mazarr, 7746 Tripp Avenue, Skokie, Illinois.

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FOR SALE—K22, SHEARD FRONT, SHEEP-lined holster, tools, etc., perfect inside, out, first m.o. $85.00. Bert Orne, Ortonville, Minn.

IVER JOHNSON SUPERTRAP DOUBLE BARREL, ventilated rib, automatic ejectors, beavertail forend, Lyman ivory sights, recoil pad, 12-gauge 32" full. 10 boxes Super shells, all new, $100.00. E. C. Andrews, 2707 Barnes Avenue, Bronx 67, New York. Member.

FOR SALE—REMINGTON .257 ROBERTS 30 EXpress, brand new barrel, fired 20 times for sighting, otherwise excellent. Redfield rear, G&H double lever side mount for Alaskan (no scope), mounted, 4 boxes 100 gr. ammunition, $150.00, without mount, $120.00. 1-Lyman 48JS for 70, excellent, $12.00. 1-Lyman 48C for 52 target or Sporter. Herbert C. Roux, 6921 Woodward Avenue, Bell, California.

FOR SALE—BAUSCH & LOMB SPOTTING scope 20X perfect optically, inside and out, $55.00 33X draw tube by Bardon & Son, Paris, optically perfect, outside fair, carrying case, straps etc. 5 ft. tripod by Baird & Taplock, Glasgow, straps, holder, etc., good, outfit complete first m.o. $60.00. Bert Orne, Ortonville, Minnesota.

FOR SALE—CATALOG JUST OBTAINED A COLlection of 2000 Modern and Antique handguns, send coin, 25¢ for your copy. 38 Special wadcutter, reloads, $4.50 per 100, 30-06 blank cartridges $9.50 per 100, Winchester cartridges 32 S.L. soft point $6.50 per hundred. Winchester 35 S.L. cartridges $6.50 per 100. 38 Rim fire Winchester revolver cartridges, $2.00 per hundred. 38-56 soft point rifle cartridges, $10.00 per 100, 6.5 Berreta Italian Army rifle cartridges, metal point $10.00 per 100. 30 Govt. 1903 soft point 220 gr. Western cartridges, $10.00 per 100. 30-06 metal patch 172 gr. late issue F.A. cartridges $10.00 per 100. 7.62 metal point cartridges $10.00 per 100. .303 British metal point cartridges $12.00 per 100. 38 Auto. pistol cartridges $4.50 per 100. 405 Winchester staynless $15.00 per 100. 45 automatic pistol cartridges $6.50 per 100. All goods shipped express charges collect. Public Sport Shops, R-73, 13 S. 16th St., Phila., Penna.

FOR SALE—CUSTOM ENGRAVED HORNET, Stevens 44½, 52 Standard barrel, factory stock, pistol grip, sling swivels, unfired, rechambered Lovell 2R if desired, $100.00. Paul Ratliff, Hillyard, Washington.

FOR SALE—HARRINGTON AND RICHARDSON 944, 22 Special revolver, perfect, same as new Brauer holster, 250 long rifle, $35.00. B. A. Walter, 613 Taylor Street, Davenport, Iowa.

FOR SALE—PACIFIC DIES AND SHELL HOLDer, high speed steel, .280 Ross, 100 bullets, same caliber, Winchester, 150 grain, soft point, $20.00. Robert Haelig, Boundbrook, N. J.

FOR SALE—1¢ EACH, EMPTY 38 SPECIAL CARtridge shells, take small primers, we have plenty, order at once. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Penna.

FOR SALE—SPRINGFIELD BUHMILLER VARminter, 28" x 1⅛" barrel, fair pup stock, sling, Fecker 4-power with dot, 7 boxes ammunition, 1000 bullets, barrel, action, scope, excellent, no blue, $110.00 W. H. Smith, 709 Wallace, Clovis, New Mexico Member.

SELL—JOHNSON SEA HORSE 12 MODEL K50 used about 25 hours, excellent, $145.00 f.o.b. Gus Schoenstein, Ord, Nebraska.

COLT OFFICERS' MODEL .38, SAME IN .22, EXcellent, $70.00 each. Remington .41 caliber Derringer, excellent, $25.00. 44 Special S&W triple lock, like new, $65.00. Colt P.P. .38 S&W, excellent, $35.00, good, $30.00. Excellent S&W K22, $65.00 Money orders please. Green, No. Haverhill, New Hampshire.

FOR SALE—HOFFMAN RIFLE, NICELY ENgraved, .250-3000, Carl Zeiss Zielklein scope, excellent, $350.00. Colt Official Police, 6" barrel, $55.00, excellent. Model 70, .30-'06, perfect, $120.00 Stamp for particulars and list. Ray Harter, Cortland, New York.

FOR SALE—1, WALTHER PISTOL MODEL HP 38 about good, $85.00. 1, Hi-Standard model A, about good, 100 cartridges, $85.00. 1, S&W Military & Police, .38 Special round butt, 4" barrel, good plus, 20 cartridges, $60.00. 1 H&R Defender, very good, 38 S&W, 10 cartridges, $45.00. 1917 Colt fair, 30 cartridges, $45.00. Colt New Service .38 W.C.F. 7½" barrel, new bluing about good, 10 cartridges, $65.00. Eager's, 3 South Andrews Avenue, Fort Lauderdale, Florida.

FOR SALE—RUBBER BOATS AS MANUFACtured for U. S. Government, small, $50.00. Large $65.00. Sail boat $75.00. Information on request. Wolf Lumber Company, R.F.D. 8, Akron, Ohio.

300 REMINGTON AUTOMATIC FIRED 20 times, perfect, $140.00. J. Di Cresce, 5534 Cooper, Detroit 13, Michigan.

WEBLEY-FOSBERG AUTOMATIC REVOLVER, caliber .455, very good, rare, $70.00. Beretta Italian automatic 9mm., very good, $40.00. Colt Super .38 automatic, very good to excellent, $70.00. S&W .44 Target 6" barrel call sight, very good, $50.00. Money order please. Charles F. Hammond, 680 Rivard Blvd., Grosse Pointe, Michigan.

K22 EXCELLENT IN, SLIGHT HOLSTER WEAR, scratches, holster, $65.00. Colt Frontier .44-40, 7½ blued, good, 30 cartridges, rubber grips, $35.00. Colt percussion pocket model 31, 5 inch, blued, good shooting condition, $27.00. Colt percussion pocket model 31, 6 inch, poor. Needs barrel key, grip repair, $12.00. Member. D. Walke, 2304 Knapp St., Ames, Iowa.

FOR SALE—45 COLT NEW SERVICE, 5½" BARrel, perfect, $48.00. 12-gauge Francotte, hammerless, 26" Damascus barrels, 6¼ lbs., excellent, collector's item only, $30.00. WANT—Excellent Woodsman, 6½" barrel. R. T. Grabe, Coudersport, Penna

FOR SALE—.22 VICKERS S.S. MATCH RIFLE, excellent in and out, peep sight, variable aperture, click adjustments, fired very little, original carrying case, $80.00. Allen Dicke, 120 Broadway, New York 5, N. Y.

FOR SALE—HI-STANDARD MODEL C 22 SHORT 6½" barrel, target sights, front and rear adjustable. Detachable weight, Sanderson and regular grip, very good in, few slight scratches, $55.00. Remington Rand Electric Shaver single head, good condition, used three months, $9.00. First money order takes them. J. R. Cook, National Highway, Rt. 1, Cumberland, Maryland.

D.W.M. LUGER .30, 3¾", BORE FAIR, BALance excellent, 30 cartridges, holster, $47.50. Issue Springfield, fore-end cut, very tight, very good, $47.50. Springfield bolt, excellent, $5.00. WANT—Perfect .30-'06 barrel, suitable for fitting to Mauser. Give weight, bore and groove diameter, receiver sight for Mauser, exposure meter, photo electric. Stamp please. E. A. Bastel, Prairie du Chien, Wisconsin.

FOR SALE—TWO NEW .30-'06 ENFIELD BARrels, $15.00 each. 1, .300 Magnum Model 70 Winchester, barrel new, $20.00. 2, Springfields, 2, Mausers, 1, Krag .30, all new custom stocks French walnut, properly bedded in seasoned wood, no sights, Mausers can be heavy barreled for Varminter cartridges. Springfields with sporter weight, Varminter, new Standard 70, .220 Swift #440 in Stith mounts, 200 primed cases, Wilson dies. Parker V.H.E. 20 with 26" and 30" ejector barrels, restocked in real circassian walnut, 400 shells. 2, Hi-Side heavy 26" 2R, will stock and make dies. Details and prices on request. Hervey Lovell, 3345 N. Gale, Indianapolis, Indiana.

NEW SIGHTS—MARBLE GOSS EXTENSIONS for M52, M37, Stevens M417, Ballard and Savage M19, 22, 23 and 33, $10.80. MG 750 Series for M75, $6.75. Lyman 57MS for Mossberg, $5.40. Lyman 57E for M75 Sporter, $5.40. Redfield 102L for Savage M99, $5.00. Redfield 70RSH for Remington M720, $7.50. Unertl mounts, $14.00. Send for latest list. Badger Shooters Supply, Owen, Wisconsin.

COLT REVOLVERS, ACE, $75.00. OFFICERS' Model 22, latest model, $72.00. Officers' Model .22, not rec. head, $65.00. Woodsman 4½ barrel, $58.00. New Service, .45 Colt, $48.00. Army Special .38, Special grips, $40.00. Smith & Wesson, K-22, $60.00. M&P target .44 Special, King sights, $70.00. M&P .38 Special, $48.00. Savage .32 automatic, $22.00. Frank Stock .32 automatic, $23.00. All about excellent and a holster included with each. Art. Miller, Jr., Stevens Point, Wisconsin.

WINCHESTER .22-'03, 63 STOCK FOREARM checkered, Weaver 29ST5, mounted, all factory new, $65.00. B mounts for Mauser $6.50. 500, .22-'03 cartridges, $8.00. Mandolin leather case, $7.00. Deerhead, $12.00. Wall tent, $35.00. S. Gerhardt, Jamaica Plain, Massachusetts.

BELGIAN DOUBLE 27" BARRELS 12-GAUGE, very good, highest grade, $85.00. Mauser Sporter 8mm, set triggers, very good, with Hensoldt Ziel Dialyte 5X scope, leather case, $175.00. Paul J. Engel, Spuyten Duyvil, New York.

25X WOLLENSAK TELESCOPE, $23.00. 3, .45 Colt automatic, magazines, $2.00 each. 22 Colt automatic, magazine, $2.50. 52 Winchester magazine, $1.00. 6X Wollensak biascope, $5.00. Shakespeare #1963 Ideal level winding reel, $10.00. B.S.A. No. 1 air rifle, caliber .177, $40.00. All very good. Harold Allen, Tannersville, New York.

GENUINE DWM, GRADE 1, LUGERS, 7.65 OR 9mm, $100.00. Shells, 9mm components, Ideal mould $6.00, Pacific dies, $10.00, Powder $2.00, NMNC primers, $2.00 hundred. TRADE—9mm cartridges for 7.65mm. Perfect deltrinten 8x30 featherweight binoculars and case, $140.00. Perfect Hensoldt 8x24 binoculars and case, $65.00. Near perfect Hi-Standard H-D pistol, custom Luger-shaped barrel, 14 boxes shells, $90.00. Near perfect Remington Model 11, 20-gauge automatic, solid-rib barrel, full choke, good hard leather case, 7½ boxes Nitro Express, $90.00. Perfect Savage .300, Model 99G. 46 hunting shells, $80.00. Louis Lutfy, Professional Bldg., Phoenix, Arizona.

FOR SALE—KRAG, AS ISSUED, SLING, GOOD, 40 rounds HP, $30.00. 500 rounds NM and 120 rounds various .30-'06, ceiling prices. Russian 7.62 old stock remodeled to Sporter, receiver sights, accurate, excellent, 27 rounds exp. pt., $25.00. Springfield .45-70 as is, bore good, 20 rounds S.P. $10.00. Ross .303 World War I model, good, 40 rounds SP and 200 rounds MP, $35.00. Colt Ace, excellent, $50.00. Colt .38 PP excellent, 25 rounds, $40.00. 45 automatic, Government, 200 rounds, 2 extra mag., fair, $60.00. 32 Savage, good but does not extract, few rounds, $20.00. Lefrachaux pinfire, mechanically o.k., finish and bore fair, $15.00 money order or draft only. Say how ship. E. E. Dittbronnor, Jefferson City, Missouri.

FOR SALE—LOOK! IF YOU LIVE ON OR NEAR Long Island and are interested in real estate, have 1-1/3 acres of most desirable home property in Garden City, 230 foot frontage on Stewart avenue boarded by Kensington Road and Whitehall Blvd. Old address, 126 Stewart, have removed, must be sold to settle estate, make me an offer, you might be surprised. David J. Bond, 33 Burbank Terr., Buffalo 14, N. Y.

DOUBLE BARREL HAMMERLESS SHOTGUNS, excellent condition, Fulton 16-gauge, 28" 3 boxes case and rod, $50.00. Remington 12-gauge 28" barrel, Krupp grade fine 15-inch straight stock, beavertail fore-end, engraved in scroll, dog, bird and horse, fine checker, case, 2 boxes mod. and cyl., $90.00. Springfield double hammerless 12-gauge, 28" full and mod., case, one box, $32.50. Savage 12-gauge pump 23½" barrel, cyl., leather case, rod, 2 boxes, excellent, $48.00. Remington Model 31, 12-gauge, curly stock pistol grips checkered, redhead pad, Poly Choke, factory, leather case, rod, 2 boxes, $90.00. Excellent. Ithaca Victor grade 12-gauge trap, 29½" barrel, mod., ventilated rib, beavertail fore-end, nicely figured stock, case, 2 boxes, $48.00. Winchester automatic 12-gauge, mod. 1912, 28" barrel, full. Engraved receiver inlaid with gold dog and quail and stock with 21 silver and ebony birds and 8 stars of maple and rosewood. Carved ivory buttpiece, very good, $140.00. 8mm Mauser carbine remodeled to Sporter. A neat job and very good, 15 cartridges and case, $42.50. Krag Carbine as issued, 1 box, very good, $35.00. 38-40 rifle, barrel fits inside 16-gauge shotgun, very good, $8.00. Luger 8mm DMC 1917, 8-inch barrel, holster and rod, very good, $80.00. S&W .38, Model 82 pocket revolver D.A. hinge, 3½" barrel, nickel, very good, 1 box, $17.50. Winchester 5X scope with top mounts, five, $18.00. Short pistol barrel inserts for shotguns 32, 38, 32-20, $3.50. Vern Martin, 316 Logan, Steubenville, Ohio.

ANYONE INTERESTED IN THE HOBBY OF collecting cartridges and shells should send 20¢ for a copy of my "Big Single Specimen Price List #405 of 1000 Items." Chas. Shattuck, Cherry Creek, N. Y.

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SELL—22 SEARS RANGER, #50 TARGET RIFLE, 26" barrel, Standard rear peep sight, Lyman 17A front, three magazines, telescope sight bases, excellent, $40.00. 6 x 30 Bausch & Lomb army binoculars, excellent, name on case, $65.00. Remington portable typewriter, pica, single thumb knob, not noiseless, cased, slight use, $65.00. All f.o.b. Stamp please for reply. Make no remittance until requested. H. Dohrman, 534 East Southern Avenue, Covington, Kentucky.

FOR SALE—WINCHESTERS—54, .30-'06, 330 scope, very good to excellent, box silvertips, $110.00. 94, .32 Special, excellent in, good out, box Core-lokt, $46.00. 94 carbine, 32 Special, good in and out, box Core-lokt, $43.00. 6 x 30 U. S. Navy binoculars, case, excellent to new, $60.00. Colt Shooting Master, 38 Special, new and unfired, $95.00. Remington automatic, 20-gauge, 5-shot, full rib, very good out, excellent in, Cutts with 3 tubes, $90.00. Browning 16, 5-shot, full rib, very good out, excellent in, Weaver choke, 3 tubes, $85.00. Shells with each. Ballard about .38 caliber, good action and bore, $8.00. Springfield Service stock with inletted P.G., good, $5.00. Deluxe Oberndorf Mauser, .30-'06, Lyman 48, ramp, beautiful French walnut and ebony stock, as new, $125.00. WANTED—Lyman Super Target-spot 12x or 15x, excellent, no conversions. E. W. Robbins, Milford, Massachusetts.

WINCHESTER 52 H.B., Lyman 77 and 48, perfect, sling, extras including about 500 L.R., $95.00. Frank Isenhart, 3031 O St., N. W., Washington, D. C.

FINE ORIGINAL FLINT RIFLE BY S. MILLER, a long graceful Penna. straight cut, slight defect in wood above lock, otherwise perfect, nice old horn goes with it. $150.00. Another very early long Penna. Flint double sighted smooth bore with horn, $60.00. Excellent wall pieces. Guaranteed as represented. J. G. Dillin, Media, Penna.

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S&W .38-44 OUTDOORSMAN, EXCELLENT INside, very good outside. $75.00 money order. C. N. Henshaw, Plattsburg, N. Y.

SALE—M70 SWIFT, WEAVER 330 B MOUNTS, sling, 130 handloads, very good to excellent, money order, $130.00. C. W. Ortt, Box 14, Durango, Colorado.

FOR SALE—MODEL 88 MAUSER CARBINE, 8mm. about v.g., 50 cartridges as issued, $30.00. Winchester Model 61, smooth bore, 500 long rifle shot cartridges, perfect $48.00. Lefever Nitro Special double Hammerless Shotgun, 12x30, modified and full, v.g., or better, bores perfect, canvas case, cleaner, 25 shells (fresh stock, your choice of load), $48.00. Robert Haelig, Boundbrook, N. J.

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KRAG 2R, SINGLE SHOT, CHECKERED SPORTer stock, Weaver 329, excellent in, good out, some loads, components, $75.00. E. J. Bromley, 620 N. 66th St., Wauwatosa 13, Wisconsin.

FOR SALE—PAIR 7X50 ZEISS BINOCULARS. I. F. Optically perfect, slight outside wear, case. $175.00. No trades. W. J. Pearce, 5906 South Olive St., Los Angeles, California.

B&L DRAWTUBE SCOPE AND MOSSBERG stand, perfect, $40.00. H. Randall, 17 S. Hazel, Danville, Illinois.

FOR SALE—COLT OFFICIAL POLICE, .38 Special 6" barrel, checkered walnut grips, never used, perfect, in original box, $60.00. J. Winchell, Cloverport, Kentucky.

FOR SALE—B&L NRA SPOTTER COMPLETE $95.00 outfit, $75.00, Oigee Gnomet 2½ power, finish worn $30.00, Malcolm 6 power, no mounts, $20.00, Goerz 4 power, German mounts, $35.00, Voigt Lander Skopar B, $35.00, Fecker short small game 4X, $30.00. Goerz Certar 6 power Noske side mount, $60.00. M. Samuelson, Amityville, New York.

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FOR SALE—$4.00 STEEL SAFE DEPOSIT BOX 14 x 14 inches, double lock protection for valuable papers, money, jewelry, mail orders filled. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Penna.

COLLECTIONS OR SINGLE PIECES PURchased at fair prices. Give full description. Kimball Arms Co., Woburn, Mass. tf

FOR SALE—MUZZLE LOADING SCHUETZEN, round ball, good, massive, $65.00, Elgin Cutlass Pistol, sheath, $385.00, New Bore, round ball muzzle loader, fullstock, $35.00, European Army issue flint pistols, $29.50 each, Spiketail ancient miguelet flint pistols, $35.00 each, rare alteration flint to percussion military pistols, $29.50 each, Silver mounted, silver sheathed, beautiful flint pistol, $49.50, Excellent bore Davis Deluxe 12 gauge shotgun, double, ejectors, ivory bead, needs trigger guard, buttstock, minor repairs, $16.50. Beautiful carved Ky. smoothbore fullstock, $37.50. Several very rare Government Trials, alteration from percussion US experimental breechloaders, very good, $35.00 each. New condition .45-70 Springfield, $22.50. Twigg, London, double barrel flint pistol, scarce, $49.50. Forsythe action, double barrel shotgun, $500.00. Forsyth action 2 groove rifle, very good, $500.00. These are the world's most important. Cased Green's improvement of Forsyth—set double pistols, $500.00. Green's improvement double shotgun, $500.00. Frank Wesson Pistol, .32 rimfire, like Stevens, fair, used by Annie Oakley, $35.00. Whitneyville .44-40 repeating rifle, engraved, very good, given by Annie Oakley to Mayor of Syracuse, N. Y. $95.00. Sword of Gen. Burnside, $35.00. Muzzle Loading shotguns, several, good, $25.00. Brass barrel, Spring bayonet, blunderbuss, $75.00. Chinese matchlock, $50.00. Rare percussion blunderbuss, $95.00, pearl ornamented, fair. HossThief Gayzette, gunlist #3, self addressed stamped envelope. Miller Bedford, New London, Ohio.

SHOTGUN PRIMERS—WESTERN BATTERY cup primers No. 209. New stock. Limit 5000. No priority. These are prewar prices. Cash with order. No C.O.D. orders filled. Price $6.75 per thousand. Add packing charge of 25¢ for any size shipment. No shipment less than 1000. Pacific Gun Sight Company, 353 Hayes St., San Francisco 2, California.

380 COLT AUTOMATIC, BARREL AND ACTION excellent, poor finish, black Sam Brown belt and holster, 100 shells, $35.00. 32 S&W, H.E. new 4¼" barrel and cylinder, factory rebuilt, like new, unfired, square Franzite pearl grips, 200 shells, $45.00. Remington 10A, 12-gauge shotgun, very good inside, poor finish, stock shortened, split at grip but solid, $27.00. Stith mount, fits Weaver 330, Winchester 70, excellent, $8.00. Evin Armstrong, Box 99, Camden, Michigan.

SEND THREE CENT STAMP FOR LATEST LIST of Modern and obsolete cartridges. Kimball Arms Company, Woburn, Mass. tf

FOR SALE—22 CALIBER JACKETED BULLETS copper jackets only 42 grain, $2.50 per hundred postpaid, sample free. Milo Hill, Caledonia, Ohio.

FOR SALE—REMINGTON 720, 30-06 PERFECT, same as new, new Weaver 440 scope, B mounts, $150.00. 1½ Remington and Western NMNC primers, $10.00 per M. 34 F.A. 30-06 7¢ each. B. A. Walter, 613 Taylor Street, Davenport, Iowa.

FOR SALE—SMITH & WESSON .357 MAGNUM, 5" blue, perfect in, excellent out, box metal piercing ammunition, $125.00. H. H. Gaffin, 5548 Carrollton, Indianapolis 5, Indiana.

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FOR SALE—.45 COLT GOVT. AUTO., REBLUED, excellent, holster, extra clip, $55.00. .45 Colt DA, very good, $40.00. 7.65 Sauer Auto, very good, $25.00. Higgins, Pleasantville, N. Y.

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S&W .22 SINGLE SHOT PISTOL TIP UP 10" barrel, adjustable Patridge sights, perfect condition, $75.00. Remington .50 single shot pistol, 8" barrel, relined for .38 Special, Gold bead ramp front sight, new checked walnut grips and forearm, excellent condition, $75.00. Clark Wier, P.O. Box 346, Deming, New Mexico.

FOR SALE—1X SHOTGUN SCOPES NEW $20.35 mounts additional B $6.60, T $2.20. S. A. Wentling, Palmyra, Penna.

FOR SALE—COLT NEW SERVICE, FACTORY new, .38 Special, 5½" barrel, 200 cartridges, Western, perfect, lot, $115.00, money order. M. J. Albert, Cedar Falls, Iowa.

SELL OR TRADE

BELGIUM BROWNING AUTOMATIC 12-GAUGE 30" barrel, excellent in, very good to excellent out, appreciated if seen, $90.00. Colt Woodsman 4½" barrel, excellent in, very good out, $55.00. WANT—Marlin O&U 20-gauge Model 90, excellent or better. Swap .300 ammunition for 20-gauge #6's. Arthur MacDuff, Great Neck Road, Waterford, Connecticut.

FOR SALE—HIGH STANDARD MODEL B AUtomatic, inside excellent, outside good, good belt and holster, $45.00. Also 32 Colt automatic, outside good, barrel poor, $15.00. WANTED—Model 720A or 720SR Remington and Winchester Model 70 in .270 or .30-'06 caliber, must be excellent or better. Howard Stultz, Abbyville, Kansas.

45 COLT IDEAL RELOADING TOOL, THREE decapping pins, lubricator, stick lubricant, 52, .45 Colt bullets, Ideal No. 456401, lubricated, 2½ lb. pigs bullet metal, 63 recapped .45 Colt nickel cases, 450 large pistol primers, Ideal single mould, Ideal bullet 456401. All excellent. $15.00 plus postage takes all or TRADE for .32-20 cartridges. Ralph Matheson, 304 E. Madison, Ann Arbor, Michigan.

AMMUNITION SALE—25 ROUNDS .375 H&H Hoffman Mag., $5.00. 100 rounds .300 H&H Hoffman Mag., $15.00. Hoffman "Double" shotgun stocks semi-finished $5.00. India Rosewood stock blanks (from Hoffman stock) $6.00 to $10.00. WANT—Rifle actions. Frank Foster, Clovis, New Mexico.

PEDIGREE POINTER PUPS, FARM RAISED, ch. Spunky Creek Boy and Ch. Air Pilot. Blood lines, $50.00 each or TRADE for modern guns. Harold Hemmelgarn, R. R. 1, #105, Maria Stein, Ohio. 8-44

LATEST .351 WINCHESTER AUTOMATIC. PERfect except spot bluing off barrel. 2, 5-shot, 2, 10-shot magazines, 250 factory shells, $140.00. Winchester '94 .30-30 carbine factory grease, Lyman windage tang sight, $65.00. WANT—Scope mounted Savage .300, match .45 automatic Winchester 95 carbine .30-40. G. L. Elliott, 1824 Crescent Drive, Springfield, Ohio.

FOR SALE—VARMINTER, EXCELLENT, STRAP, scope blocks, 50 ($100.00) handloads, Mauser action, neck (100-55 gr. Sisk) resizer and bullet seating die. Enfield, Sporter, strap, scope blocks, Winchester action and barrel, fixed front and Lyman rear adjustable. Excellent. 300 lead and 200, 150 gr. bullets, $70.00. TRADE—Marlin .32-40 lever action, full mag., good, 20 hunting loads for a good 28-30 loading tool complete or buy same. Dr. C. L. Tinker, 119 Fair Avenue, N. E., New Philadelphia, Ohio.

FOR SALE—ONE .45 COLT NEW SERVICE, excellent in and out, 5½" barrel, $75.00. 38 W.C.F. Colt new service, excellent in, very good out, 5½" barrel, $65.00. Will pay reasonable prices for .380, .32 and .25 automatic cartridges or exchange .22 L. R. ammunition. First money orders. Ray Randolph, 3943 Delaware St., Gary, Indiana.

SELL—LATE MODEL 12, 90230I, TRAP GRADE, ventilated rib, latest Poly Choke, 29 inches over-all. Near perfect, $100.00. WANT—MODEL 21. E. Brown, Box 28, Greybull, Wyoming.

BULL-PUP'S A SPECIALTY—RESTOCKING, REbluing, repairing on WILDCAT and commercial rifles. Will accept guns for work, also used guns for sale. Member. Hugh C. Reid, 3619 Cambridge, Des Moines 13, Iowa.

FOR SALE OR TRADE—38 SPECIAL PACIFIC dies, $18.00. Ideal mould blocks No. 358250, $4.00. Bond mould blocks, J-311-390, $5.00. WANT—158 grain, .38 Special double or Armory mould and 155 grain wadcutter. Spates Robbyer, Cresap Park, Cumberland, Maryland.

FOR SALE—22 COLT WOODSMAN 6½", ALMOST perfect, extra magazine, wipe 200 long rifle cartridges, sheep lined holster, $65.00. Satisfaction guaranteed. Want 22 long rifle cartridge, will pay ceiling price. Kinnie Wireman, Olivet, Michigan.

SELL OR TRADE—BRITISH 303 ENFIELD, perfect as issued, (never fired) $58.00. U.S. 30-40 Krag, Mod 1896 as issued carbine, good-fair condition, $36.00 with 1 box hunting loads, 1 box army loads. Wanted—9mm. Luger ammunition, in any quantity, state price; wanted Target Woodsman, good-perfect; wanted 7.62 Russ. as issued, good-perfect. E. A. Throckmorton, Dundee, Illinois.

SALE OR TRADE—330S, T MOUNTS, $31.90, B $36.30, 440S T mounts $37.40, B $41.80. Stith mounts stocked. S. A. Wentling, Palmyra, Penna.

WOODSMAN 6 LOW SERIAL EXCELLENT, $50.00. .22 Sportsman 6 inch, 9-shot, like new, trade only. .38 S&W hammerless 3½ very good, $23.00. Same with S&W pearl grips, a beauty, $30.00. 45 Colt DA Frontier 5 inch almost very good, $17.50. Bisley converted to .22 by master gunsmith, was excellent before conversion. No junker rebuilt. Adjustable rear, bead front, $55.00. S&W DA topbreak 6 inch sheets 44 Special, good, 50 cartridges, $30.00, pearl grips. New Service .45 Colt 4 inch very good except finish fair, 50 cartridges, $38.00. Officers' Model target .22, 6 inch Roper sights, like new, TRADE ONLY—Winchester Low-wall .22 lr Parker rifled lining job, perfect in, good out, $22.00. WILL TRADE FOR MOST ANYTHING OR BUY—WANT ESPECIALLY—Shooting Master or New Service Target 5½ or 6 inch .45 automatic rim. Perfect inside. Can use S&W or Colt 1917. Fecker 8 to 12 X—prefer ¾ or 1⅛. Cheap .44-40, SA Army Colt. Also have for trade several good topbreak 32s and 38s, one hammerless. Robert Brown, Box 193, Ripon, Wisconsin.

FOR SALE OR TRADE—One R.B. Series B. Graflex, 3¼ x 4¼, Kodak anastigmat f:4.5 lens, F.P.A., carrying case. All guaranteed as new in condition and appearance, $100.00. WANT—Model 70 Winchester .30-'06 with good scope. Homer E. Reid, Telluride, Colorado.

HI-STANDARD MODEL B, 6½" BARREL EXcellent, $55.00. OR WILL TRADE for deer rifle or shotgun. Remington O&U 12 gauge Skeets, ventilated rib, excellent, $175.00. C. W. McNeill, 724 E. 4th St., Pueblo, Colorado.

FOR SALE—WINCHESTER 1890, BARREL NEW, $25.00. Want 18" Gamegetter, Serviceable or broken crimpers, broken hammer Parkers. G. Schmeling, Germantown, Wisconsin.

FOR SALE—BEAUTIFULLY CARVED GOLDEN oak gun case. Two round, two square plate glass mirrors. Two copper etchings depicting bird dogs on point, man with gun ready for flush. Room for six or eight guns, hunting togs, etc. Two secret ammunition drawers. Large plate glass door locks case. Three other drawers concealed by beautiful Roman copper etching. Picture on request. Price $300.00. WANT—Featherweight 12 double, 26" C & IC, or modified, SS trigger, automatic ejector. ALSO WANT—99RS 250-3000 Savage with scope. C. Skipworth, Kingsport, Tenn.

CHAMBERING AND BARREL FITTING MOST all popular calibers when customer has barrel and action. Have M98 Mauser actions and 2, .224" barrels for making up heavy Varmint rifles according to what may be wanted. Ask for details. WANT—Factory unaltered Winchester SS high side .25-20SS rifle, perfect, or Stevens 44½. .25-20SS same condition, prefer engraved case hardened colored action. See last month's ad for small parts for .45 automatic and Winchester SS. G. R. Douglas, Box 773, Belle, West Virginia.

PRIMERS, EMPTY CASES, LOADING TOOLS and moulds, jacketed bullets, shooter's supplies, bought, sold and traded. Send stamp for list. WANTED—Pacific dies, empty shells, jacketed bullets, advise price and condition. Detroit Shooters Supply, 14414 Cruse, Detroit, Michigan.

SELL OR TRADE—300 SAVAGE 99 TAKEDOWN. Straight grip, tang peep, excellent in, very good out, $45.00. Winchester 21 Skeet 20-gauge, excellent, $100.00. WANT—Bullet moulds for .38 Special Sharp hollow point, and Keith Ideal 358.429. Also B&M visible powder measure. Jim Hubbard, Corcoran, California.

30-'06 COMPONENTS. BULLETS: 100 BOATtail, 109-150 gr., 30-110 gr. 29 Pope. Cases: 35-1918 primed, 45-1935 (20 primed). 27 rounds 1933 FA ammunition, 8 brass clips. Lot $9.00. Lyman 5A, mounts, bluing worn, optically excellent, $25.00. OR TRADE for S.S., Savage M20 actions. Dale Gerster, 3028 S. Abingdon St., Arlington, Virginia.

SELL OR TRADE—PARKER 12 D.H., $130.00. Sedgley Springfield Sporter, $105.00, 30-30 Winchester carbine, new, $65.00, Stevens Browning 12, $50.00, 30-30 Winchester, $35.00. S&W .38 Special Target, $65.00. Bullets 30-06, 2-3¢ bullet metal. Want—F.A. primers, 25 and .270 bullets 30-30, 32-40, 303 Savage empties. Arthur B. Colwell, 48 Wendell St., Providence, 9, R. I.

SELL—PARKER VULCAN 12x30, F&F, PLAIN extractors, pistol grip with cap, pad, inlaid name shield, with English take down leather case, very good, wonderful duck gun, $130.00. Want SW 38 Special, K-22 or Colt OM, good to better. J. E. Lyons, 2140 Pacific Ave., San Francisco, 15, California.

SELL OR TRADE—STANDARD 52, SPEED ACtion, 35 Mielt rear, 77 front, barrel excellent, outside good to excellent, approval $75.00, or trade for Winchester 70-250 or 220. Match Target Woodsman, factory box and condition. Trade for Unertl 8X-1¼" or equal. E. G. Pope, Lubbock, Texas.

FOR SALE—S&W M&P 38 SPECIAL, EXCELlent, fancy grips, 200 handloads $55.00. K-22, perfect $60.00. Buy or trade for targetspot. Delbert Wells, Salem, Indiana.

SELL OR TRADE—WINCHESTER 52 H.B. SERIAL 53714B, 5A scope, perfect $100.00, printing press 8x12, good, $100.00, L. C. Smith Typewriter, good, $55.00, Combined Burroughs adding machine and cash register, good $60.00, primers 750, 1½ NMNC for 500 8½ NMNC, 79, 44 Russian cartridges, fresh. Want—Fairbanks scales, No. 5 powder measure, Pacific dies, Swift, Remington express 257, 30. Winchester, 270, Woodsman, must be good, f.o.b. Greene. Leon Vergason, Greene, N. Y.

SELL OR TRADE—REMINGTON M8, V. GOOD, auto 32 caliber, with 150 rounds, $100.00, Winchester 92 good, 32 caliber, 150 rounds, $47.50, Ross 303 caliber v. good, 100 rounds, $65.00, Batavia Leader, v. good, 12x30, with four boxes shells, $47.50. Trade, want Winchester pump 410 and 28 gauge and shells. Money order. John C. Blocker, 910 First Fed. Bldg., St. Petersburg, Fla.

SELL OR TRADE—PARKER V.H. GRADE MOD & full with laced on Jostam recoil pad, 12 ga. excellent, 2 boxes of shells, total price $100.00 cash or money order or trade for excellent .257 Winchester Model 70 with ammunition. Albert F. Capone, 8941 N.E. 10th Ave., Miami, Florida.

SELL OR TRADE—38 OMT 7½", VERY GOOD plus in, good out, leather holster, $57.50. Want—Woodsman prefer match target. L. J. Lanman, Norfolk, Nebraska.

SELL OR TRADE—LIGHT 12 FRANCOTT HAMmerless, good, $85.00, consider H.P. rifle part pay. John Colbert, East Chatham, N. Y.

SELL OR TRADE—FITZGERALD MODEL, DEtective Special, excellent, Heiser holster, $85.00, Zeiss binoculars 6x24 individual focus, case, straps, very good optically, $50.00. Want S&W Terrier, Hensoldt, Dialyt, or? L. O'Sullivan, 907 Drackert St., Hammond, Indiana.

FOR SALE—330S, T MOUNTS, $31.90, B $36.30, 440S T mounts, $37.40, B $41.80. Stith mounts stocked. S. A. Wentling, Palmyra, Penna.

SELL OR TRADE—EMERSON PORTABLE, #426, new tubes, case, etc. $25.00. Rand shaver, cracked case, $2.50. .58 bullets, 440 grain, $1.50 per hundred. Ray-Ban goggles, $9.50. Sale, or trade for muzzleloaders. Paul Kopsch, Swarthmore College, Swarthmore, Penna.

SELL—S&W 38 SPECIAL M&P 5", PEARL, GOOD in, good reblue out, box shells, $50.00: S&W 38 hammerless, 3¼", fair to good, tight, 30 shells, $25.00, Winchester 92, 44-40 rifle, octagon, fair to good, 33 shells, $25.00; Two-shot, bolt action 12 ga. shotgun converted from Mauser rifle, good in, fair out, stock cracked, bolted and taped, $25.00. Want—Moulds and Ideal lubricator dies also Pacific loading dies or tong tools for followinz: 32 S&W, 32-20, 44 Special, 45 Colt. Henry W. Drake, Geneva, Nebraska.

SELL OR TRADE—12M., 209 WINCHESTER primers, $9.00 per M. 2 lb. 3031; 2 lb. 4064; 1 lb. 4198 powder $8.50 lot. Want—Shotshell trimmer, ironer. Francis Yonker, Mantua, Ohio.

SELL—30 LUGER, VERY GOOD PLUS. NICE holster, $50.00. Trade—Luger plus excellent 16 Lefever double, 50 shells for 70 Winchester in Hornet, .270, or .275 H&H Magnum. H. Carmichael, 395 Houston, Coalinga, California.

SELL OR TRADE—SAVAGE 99, 250-3000, EXcellent in and out, case and 40 rounds, $85.00. Hubalek 16X scope, 1¼", optically perfect, outside very good except blue worn, $125.00. Money back guarantee. Consider trades on above. Want Rifleman prior to 1935, short barrelled Woodsman, Senior Targetspot. Have some ammunition for trade. List for stamp. Ed Betz, Life Member, Sangerfield, New York.

SELL OR TRADE—COLT OFFICIAL POLICE .38 Special, holster, excellent plus 2 boxes factory wadcutters, 2 boxes handloads, hand tool, 400 primers, cases, bullets, powder $85.00, Woodsman 4½ fancy grips, holster, trigger stop, excellent plus, $65.00. New Savage 19 N.R.A. $47.50, Stevens 416 nice case excellent plus, Redfield rear, Lyman $55.00, Winchester 52 slow lock excellent, leaf, Lyman $45.00, Stevens 416 Lyman 57, front, very good, $45.00. Trade 30-06 cases, components, factory cartridges for rimless hand tool, handles, 257 cartridges, bullets. Stamp for reply. G. Hathaway, 1521 Kealty Lane, St. Louis, 4, Missouri.

SELL OR TRADE—CUSTOM HORNETS $4.00, $5.00 box, 1M Krags $4.00 box, 30-06 150 gr, 180 gr. $2.50 box, Lovells, 30-30, 32 Special, 35 Remington, 32-20, 20 other calibers. Stamp for list, buy, sell, trade, guns, primers, etc. Sell Remington 1½ $10.00 per M. Want 38 S&W short, 38 Special all types rifle and pistol cases, and bullets. Don't be caught again. Have them loaded while we have time. F. A. Emerson, Fed. Lic. Mfg. Auburn, Mass.

SELL OR TRADE—REMINGTON 37, SELECTED, excellent to perfect, Remington sights, late model, $85.00, or might trade for perfect 52 Standard, round receiver & cash. Wanted—36 power eyepiece for 65 mm. B&L. George Kasmer, 1310 Third Road, Stansbury Estates, Middle River, Md.

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SELL OR TRADE—H&R .32 AUTOMATIC, BARrel worn, otherwise good, holster, 50 cartridges, $20.00. Colt double action .41 for parts only, $7.50. Want fair to good Colt S.A.A. 38-40 or .45, or .45 automatic Colt. Ed Manier, Section A, 2528th AAFBU, MAAF, Midland, Texas.

SELL OR TRADE—LATEST PERFECT 37 REMington, iron sights, excellent 8X Targetspot, hand made case, new Argus spotting scope. Freeland offset stand. $212.00 or trade on 16mm. sound projector. T. E. Bock, 2118 N. San Marcial St., El Paso, Texas.

FOR SALE—20 BOXES 32 S&W LONG WADCUTters 98 gr. Western, factofy cartons, $26.00 perfect. Will trade clean. 22 L.R. cartridges, on even basis for few boxes Winchester Wimbledon cup 30-06's. Will pay good price for 2 perfect model 70, 30-06's any sights, any weight barrels, no alterations. S. P. Coffey, 5424 Broadway, San Antonio, Texas.

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SELL OR TRADE—DELUXE MANNLICHER-Schoenauer, 9.5mm ribbed barrel, built-in tang peep, 39 cartridges, excellent to perfect, $250.00. Want W70, .250 or .257, accessories. Graham, 2126 No. 20th Street, Lafayette, Indiana.

SELL OR TRADE—WINCHESTER 52HB, MARKSman stock, 17A, Marble Goss rear, excellent in, good out, scratches on stock, $85.00. Want 30-06, 22 long rifle, or 250-3000 ammunition. Will consider Winchester M70 target grade 30-06, excellent or better, with loading tools. Full details first letter. R. J. LaMiller, Box 529, Tracy, California.

SELL OR TRADE—ONE COLT MATCH TARGET Woodsman, perfect, Tenite custom grips, also small thumbrest grips, Two magazines, sheepskin holster, $80.00 or trade for K-22 Masterpiece one Ultra thin model 17 jeweled Elgin watch rose gold finish Simmons chain, same, used only two months, $50.00 money back guarantee. Dr. W. H. Grigsby, Hartford, Arkansas.

SELL OR TRADE—WINCHESTER MODEL 65, 32-20 Marble tang & 17A, perfect, $60.00, or trade for Model 64, 30-30 same condition. John Scribner, Rt. #4, Box 460, Port Orchard, Washington.

SELL OR TRADE—WINCHESTER 52 H.B. 17A front, vaver rear, case, excellent, $87.50, Browning O&U 12x26 skeet, twin triggers, solid rib, v.g. $109.50, L. C. Smith 12x30 M&F, v.g., $52.50, S&W top break D.A. revolver, 44 Russian, 5", blue finish, box shells, v.g. $39.50, Schick shaver $6.50, 1942 issue 30-06, 9¢. Trade high grade mens pocket and wrist watches for guns. A. Spina, 514 Main, Towanda, Penna.

SALE OR TRADE—330S, T MOUNTS, $31.90, B $36.30, 440S T mounts, $37.40, B $41.80. Stith mounts stocked. S. A. Wentling, Palmyra, Penna.

SELL OR TRADE—SELL .30 MAUSER MILItary Pistol, good, 150 cartridges, 5 clips $50.00. Hopkins Allen Single rifle 38-40, interchangeable 44XL barrel, $18.00. Want .22 pistol, other guns. J. Fitzgerald, Gonic, N. H.

SELL OR TRADE—7MM. MAUSER ESPANOL Loewe Berlin, full Mannlicher stock, beautiful light grain walnut (English) Lyman 48, 22" barrel, good shooting condition, $65.00. Remington Fieldmaster, 121, 22 L.R. looks as new $50.00. Winchester 42, 410 pump, modified excellent in & out, $75.00. Winchester 70, 220 Swift, Super grade without cheekpiece, ivory inlaid forend & grip, rifle new only test fired, quick detachable inlaid swivels, 1" sling, Weaver 440, post, Redfield mounts, $250.00. Colt 45 automatic new unfired barrel, ex in good out, $65.00. Remington 12 ga. auto, model 11, full 28" ribbed, reblued, rubber butt, perfect shooting condition, $85.00. Win 12, 12 ga. full ribbed 30", excellent in, good out, $95.00. Plenty ammunition all guns, only 2 boxes 410 Winchester. Wanted—Zeiss or Hensoldt rifle scope (any power), Winchester 70, 7mm. Super or Sta, Win 70, 30-06 same, 65mm. B&L shooting coat 40, Rayban glasses, Pacific loading tool, powder measure, scales, .224 bullets, Hornet cases, Mannlicher-Schoenauer 6.5 Sporter. Trade any above rifle or 2 cases 12 ga. 1⅛ oz. 3¼ drs, Remington Kleanbore or Winchester Ranger, also Hensoldt 8x24 binoculars Artilleri, leather case, straps, excellent optically, slight use out, $55.00. 200-30-30 Super X S.P. Springfield action & good barrel, Lyman 48, $55.00. Money order or C.O.D. express, H. C. Osborn, 1120 Broadway, Box 1267, San Antonio, 2, Texas.

SELL OR TRADE—WINCHESTER MODEL 10 autoloading, .401 cal., reblued, very good, $75.00 Marlin model 39, very good, $45.00. Remington single shot .22, model 41-P, peep rear, excellent, $10.00. Paramount automatic .32, very good, $20.00. Want Lugers, Luger ammunition, Colt single actions, Krags, etc. Will trade or pay cash. Ray Groff, 32 Second St., Newport, R. I.

SELL OR TRADE—MOTO TOOL KIT, MODEI #2, perfect, $25.00; Colt .25 Automatic, good. $25.00; Colt .45 Automatic, perfect inside, good outside, 50 cartridges, $65.00, or trade for Match Target Woodsman. Want Cheap revolvers. W. W Dudley, Elizabeth City, North Carolina.

SELL OR TRADE—30-06 SPRINGFIELD SPORTer, never fired, No. 1,476,192, reshaped stock, grip cap, forend tip, used Jostam pad, Q.D. swivels, sling. $125.00. 500 '43 M2 30-06 cartridges, $50.00 Winchester Model 12, 20ga. Pigeon grade, Cutts Compensator, special stock, 75 shells, a real beauty. write for complete description, $200.00. Ithaca 20 Featherlight pump, fancy straight grip stock, recoil pad, latest Poly Choke, 23½ barrel, bore perfect, receiver finish worn some, 50 shells, trade even for Lyman Super Targetspot or Fecker 1½ target scope. optically perfect outside immaterial. Russell Elder. 206 West Broad St., Griffin, Ga.

SELL OR TRADE—EXCELLENT 19H SAVAGE Hornet 440 Weaver and B mounts fired about 50 times, $98.00. Plenty ammunition at ceiling price Excellent plus model 19 Savage Target rifle, $38.00 10 boxes 22 long rifle, $3.40. Wanted—Excellent 220 Swift or 270 with some ammunition. I will trade 22 long rifles or 12 gauge shells or Hornets for 220 or 270, or 30-06, 110 grain. Francis Warfield. Severn, Maryland.

SELL OR TRADE—WOODSMAN 6½, EXCELlent plus, holster, case, $55.00. Trade books, The Rifle in America, Complete Guide to Handloading. Johnson Automatic Arms, new for Weaver 440. Member. Edward Sill, 1501 Granby, Cleveland, 9, Ohio

SELL OR TRADE—MANILA ROPE, 400 FEET 1¼" diameter, excellent $60.00. Colt .45 Army automatic, commercial, excellent $60.00. Marlin 30-30 carbine, excellent, 40 cartridges, $40.00. H&R. single, 16 gauge, perfect, 75 shells, $16.00, Weston. DC 15 volt meter, as new, $2.50. Wilcox, Crittenden, 4" liquid boat compass, perfect, $15.00. Parker 10 gauge double, very good. $45.00. Consider trades Thomas Nolan, 15433 Twelfth Rd, Whitestone, New York.

SELL OR TRADE—WINCHESTER 63, 20" NICEly checkered, perfect, $50.00. Colt .22 repeater, fair, $12.00. Winchester 30-40 hi-wall, good, $25.00 Winchester 25-20 low-wall, 200 cartridges, fair $20.00. Sharps 50-70 carbine, good, $18.00. Colt new Service 45, 7½" box kleanbores, v.g. $35.00 Colt 38 pocket automatic, 200 cartridges, v.g. $40.00. S&W 38, Model 91, 4", perfect. $35.00. Whitneyville 32, nickeled. v.g. $8.00. H&R 32 nickled, good, $5.00. Want 45-90 loading tools, sizer mould, primers, 45-90, 45-70, 8mm. 22 Savage H.P. cartridges. 20 ga. pump gun, Deer rifle, no telegrams please. Oluf Bearrood, Comstock, Wisconsin.

SELL OR TRADE—45 COLT AUTOMATIC, arched housing, perfect in, excellent out, Franzite grips, 100 rounds, $65.00. 38-6" Colt Military automatic, perfect bore, excellent out, spur hammer, Franzite grips, 50 rounds, $44.50. 380 Colt automatic, perfect barrel, excellent out, Franzite grips, holster, 50 rounds, $44.00. Want 45 Colt Frontier. 45 Colt Automatic, Model Hi-Standard. J. L. Shull, Tyler, Texas.

SELL OR TRADE—M19 SAVAGE, NEW, $32.00; trade M70 Hornet, new, 200 cartridges for M70-270 with ammunition, pay difference; Trade 1⅛" Fecker, mounts, for 8x40 binoculars, pay difference top grade make; 32-20 4" Official Police, excellent, shells, $45.00. Want target grade M70-06, cash, reasonable. A. D. Sanial, La Crosse, Wisconsin.

SELL OR TRADE—FINE 32-40 POPE BALLARD Schuetzen rifle, with Pope accessories, mould, bullet lubricating pump, false Muzzle, bullet starter and powder measure, also heavy interchangeable 22 L. R. barrel by Schoyen without forearm $165.00. W. 70, caliber 270 near perfect, fired nine shots, 31, 130 grain Core Lokt, full length light leather case, Whelen strap $125.00. Winchester 44-40 Centennial 1776 fully engraved, One of One Thousand, very good, $100.00. New 440S Weaver $32.50. Carl Zeiss Deltrentis 8x30 binoculars I.F. leather case, excellent $112.50. B&L N.R.A. prismatic spotting scope 19.5X B&L tripod, near perfect, $75.00. 6X eyepiece for Fecker scope $7.50. U. S. N. 7" knife & sheath $6.25. Want—Lightweight Zeiss Zielvier, Lovell cases and components, Pacific dies. J. W. Latham. 744 Chipeta, Grand Junction, Colorado.

TRADE—.22 LONG RIFLE, .38 SPECIAL FACtory & handloads, 3000 NMNC #1½ primers. Sell or trade—2 new New Haven 100 mile Pedometers. $5.00 each. Model 95 Remington double Derringer .41 caliber, poor, $5.00. Want Colt's .22 O.P., O.M.T., Bankers Special, Match Target, also .38 O.P., O.M.T., Detective Special. State your trade and or cash terms first letter. Will answer all. Life Member. R.C. "Bob" Geesey, 323 E. Maple St., York, Penna.

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TRADE—20, KRAG LUBALOY M. C., 20 KRAG O.P. reloads, 11¢ each, 40, 32 caliber Remington Auto loading, soft point, 9¢ each. 100, 35 Winchester, 250 gr. soft point, 13¢ each, all commercial cartridges. 1300. 38 Special wad cutter mid-range., 1000, 45 Colt Western Lubaloy. W. M. Perry, 1609 Main St., Columbia, S. Car.

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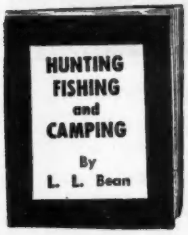

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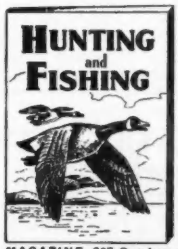

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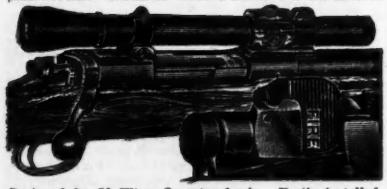

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WANTED—ENFIELD AS ISSUED, FOR REmodeling, and Winchester 70, 270. Also ammunition. L. V. Ely, Oak Harbor, Washington.

WANTED—REAR SIGHT FOR WALTHER rifle. Griffin & Howe or Sedgley carbine. Luger hunting carbine. Copies of "Muzzle Blasts" magazine. Arthur Leidesdorf, Elberon, New Jersey.

WANTED—EXCELLENT ARGUS C3 AND AUTOmatic fly rod reel. Wm. Lampke, Box 419, Bothell, Washington.

WANTED—SEVERAL NUMBER 5 AND NUMBER 6 Newhouse bear traps, also .375 bullets. George N. Lathrop, Bristol, Vermont. 7-44

WANTED—SEVERAL LATE WINCHESTER 52'S, heavy or standard barrels, metallic sights, National Match Springfield, number above 1,400,000, Winchester M94, .30-30 carbine, fresh water fishing tackle. All excellent to perfect only. Describe fully. Edmund McLaurin, 114 North Sixth Street, Wilmington, North Carolina.

WANTED—WINCHESTER 70 STANDARD, 270 or .30-'06 and ammunition. K. Mayer, Lebanon, Oregon.

WANTED—GOOD PRISMATIC SPOTTING scope. A. D. Paull, c/o Wheeling Stamping Company, Wheeling, W. Va.

RARA AVIS WANTED BY 1ST/SGT. IN SOUTH Pacific. Colt SAA 45 chambered for 45 ACP shell. Will consider regular 45 SAA for rechambering. Reasonable please. 1st/Sgt. Eubanks, c/c Baechler, 1628 Preston Street South, St. Petersburg, Florida.

WANTED—SHOTGUN RELOADING TOOLS—Ideal #2 Loader, Powere crimpers, shell trimmers and ironers, Winchester 209 or Remington 57 shotgun primers. Jim Clark, 2029 W. Fondulac, Milwaukee, Wisconsin.

WANTED—FOR CASH, 44 COLT AND REMINGton Percussion Revolvers, poor to fine. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-45

WANTED—ONE 12-GAUGE BROWNING featherweight, 26 or 28 inch barrels. State weight, condition and price, or if another model. William Fahnestock, Jr., 65 Broadway, New York City.

WANTED—ONE IDEAL MOULD NO. 308334. State price and condition. Luther Arthur, P.O. Box 42, Huntington Beach, California.

WANTED—ONE, MAUSER MAGNUM ACTION, double set triggers; One, Mauser Magnum Action, single trigger, One, .30-'06 Mauser Action, double set triggers. Ketchikan Gun Repair, Box 983, Ketchikan, Alaska.

WANTED—WOODSMAN, HI-STANDARD, COLT and S&W revolvers, 'scopes, must be priced reasonable. Describe. R. B. Dagenbach, 2124 Stearns Road, Cleveland 6, Ohio. Member.

WANTED—LATE MODEL REMINGTON 37 ACtion only; heavy .22 L.R. barrel or barrel blank, both excellent to perfect. Cpl. Elwood Meyer, 501st AAF Base Unit, Hqts. ATC., Washington 25, D. C.

WANTED—ENFIELD AS ISSUED. MUST BE new. Good price for right gun. R. T. Rowles, Member, Jones & Laughlin Building, Pittsburgh 30, Penna.

ZEISS BINOCULARS—WANTED—FEATHERweight model DELTAR, 8 x 40, independent focus. Require: As near new condition as possible, case, straps, privilege of examination. If you have this model or know of one, please communicate with Charles L. Clarke, Landon School, Washington 14, D. C.

MIROCULAR 8X 30MM OR WOLLENSAK 8X prism binoculars. Excellent or better. John Laraia, 365 Shrewsbury St., Worcester 4, Massachusetts.

WANTED—EXCELLENT OR BETTER WITH ammunition, Winchester 70's, 220 Swift, 257 Roberts, 300 Magnum. Savage 99G, 250-3,000. Winchester 42-410. Geo. Y. Greiman, 545 Hill Street, York, Penna.

WANTED—GOOD TO VERY GOOD WINCHESter 95, .30-40 or Savage 99, 300. State price and condition. C. R. Linger, Idaho Falls, Idaho.

WANTED—WINCHESTER 52 SPORTER WITH regular Lyman 48 rear and post or bead front sight, state condition. Regular 4½ inch Woodsman, Sport Model. Steele Partridge, Box 984, Mobile 6, Alabama.

WANTED—257, PREFER MODEL 70 WINCHESter in very good or better condition. James Selters, Center, Colorado.

PAY FAIR PRICE FOR HENSOLDT DIALYTAN. Dural-Dialytan or Duralytsix rifle scope, prefer crosshairs. Windage and elevation adjustments in scope. Must be optically and mechanically perfect. Ship express with examination privileges. W. J. Richmond, 284 N. Franklin St., Washington, Pennsylvania.

WANTED—THE FINEST LONG RANGE SHARPS Creedmoor target rifle that money can buy. Prefer with finest quality stock and complete loading equipment as I want to shoot with it. If you have such a gun write me a complete description and cash price. M. C. Clark, 169 N. LaPeer Drive, Beverly Hills, California.

WANTED—FOR CASH, ANTIQUE PISTOLS, rifles, swords, daggers, world war rifles, relics, collections, single pieces. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-45

WANTED—THREE POLICE POSITIVE SPEcials, 38. Same thing in 32-20. Police Positive 32 and 38. W. M. Perry, 1609 Main Street, Columbia, S. Car.

WANTED—330-C WEAVER, CROSS-HAIRS, REDfield Jr. M-70 mount. John W. Thorp, 354 E. Cypress, Burbank, California.

WANTED—OBSOLETE AND ANTIQUE FIREarms in working condition, single items or entire collection. H. A. Brand, 1008 Ingalls Bldg., Cincinnati 2, Ohio. 5-45

WANTED—WILL PAY FAIR CASH PRICE FOR deluxe model 70 caliber 270 with Noske or Alaskan, also superfine flintlock or percussion duellers, cased Colts or engraved, ivory, single actions, fine Jap swords, daggers. George Gorton Jr., 2512 Michigan, Racine, Wisconsin.

WANTED—FINE SINGLE SHOT OR DOUBLE barrel rifle, regular Colt Woodsman, new .25 Colt auto, ammunition, cash. Lee Lassner, 88 No. Fair Oaks, Pasadena 1, California.

WANTED—WINCHESTER MODEL 70 RIFLES, all calibers, especially need a .300 H&H in excellent condition with either the standard or target barrel and standard stock. Winchester Hi-side actions and complete rifles, including fine Schuetzens. Leslie Lindahl, Central City, Nebraska.

GENEROUS REWARD—FOR INFORMATION helping me to locate and purchase antique firearms collections. Prompt, honorable dealing. James Serven, Santa Ana, California. tf

WANTED—UNUSUAL LUGERS 9MM. AND 7.63 to add to my collection. Especially interested in obtaining an original Borchardt. Wm. A. Brown, 30 Birch St., Marblehead, Mass.

WANTED—VARMINTER IN EXCELLENT CONdition for cash or will trade K Hornet and cash. W. A. Dorff, Box 113, Bedford, Ohio.

WANTED—BAUSCH & LOMB OR ARGUS SPOTting scope, Lyman or Fecker target scope, any power. W. P. Klapp, Paoli, Penna. 1-45

WANTED—LARGE RIFLE PRIMERS, WILL trade Winchester 209 staynless shotgun primers even up. Jim Craton's, Davenport, Iowa.

WANTED—WINCHESTER MODEL 52 SPORTER, describe fully. Roy Schulpius, 750 Bender Road, Milwaukee 9, Wisconsin.

WANTED HIGH GRADE SHARPS RIFLE, CALIber 45 for 2-4/10" shell. Excellent or perfect. Geo. Weber, 823 Junior Terrace, Chicago 13, Illinois.

WANTED—A DEER RIFLE, PREFER M70 some ammunition or loading accessories. Wilbur Martin, 3379 Santa Ana, Huntington Park, California.

WANTED—WINCHESTER MODEL 70, 30-06 24" barrel. Ralph Dittman, 427 Bender Road, Milwaukee, Wisc.

WANT—10 GAUGE ITHACA MAGNUM DOUble, 30" or 32" full, 3½" chambers, very good to perfect, also shells. Les Parker, Box 156, Tarzana, California.

WANTED—PAY FIVE CENTS PER CARTRIDGE for .25-20 single shot ammunition, and 2½¢ for empties, good, fired once. Paul Ratliff, Hillyard, Washington.

WANTED—FAIR PRICES PAID FOR TARGET pistols, revolvers, rifles and antique guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-73, 13 So. 16 St., Phila., Penna.

38 SPECIAL COLT OR SMITH & WESSON, small pistol primers, large rifle primers, Ideal powder measure, sizer and lubricator. Guy Graham, Woodburn, Oregon.

WALTHER MODEL P38 PISTOL, FOREIGN automatics and revolvers. Also, handguns made for U. S. Army tests in 1907 and 1909. Arthur Leidesdorf, Elberon, New Jersey.

AT A FAIR PRICE, ARMY OFFICER NEEDS accurate reliable .45 automatic with arched housing. Commercial gun preferred. Capt. C. V. Beimfohr, 124th Cavalry, Ft. Riley, Kansas.

REMINGTON OR BROWNING O&U SINGLE selective trigger, selective ejection. Full and modified 28" ventilated rib. Gowen, 322 Plant, Tampa, Florida.

WANTED—STEVENS LIGHTWEIGHT SINGLE shot .22 caliber pistol, with 3½ inch barrel. Good condition. Also want some .22 caliber BB or CB caps. H. W. Passinger, 1 Custer St., Lemont, Illinois.

WANTED—16 SIZE POCKET WATCH OR WRIST watch, reasonable, 1941 Chevrolet clock. Si Sharp, Slatyfork, West Virginia.

WANTED—VERY GOOD SPANISH MAUSER, pay fair price. John M. Lindstrom, 190 Alhambra, San Francisco, California.

WANTED—PERFECT BORCHARDT BARREL .45-70, Venier sight, Winchester 70, .22 Hornet. Have Krag barrels and stocks. Henry F. Tenk, 1739 29th St., Rock Island, Illinois.

WANTED—PACIFIC DIES, SHELL HOLDER, Wilson case trimmer, empty cases and a few boxes ammunition. All for 300 H&H Magnum. Will pay fair price and answer all letters. Neal Starr, 6202 5th Ave., Los Angeles 43, California.

WANTED—REMINGTON FIELDMASTER Model 121, .22 Long Rifle, excellent or perfect. John Harness, Dinuba, California.

WANTED—22 SHORTS, LONGS, LONG RIFLE ammunition. Pay ceiling prices. George LaMarr, 2205 Boardwalk, Atlantic City, New Jersey. 8-44

WANTED—WILL PAY $100.00 OR MORE FOR Hensoldt Featherweight Dialytan rifle scope, 4-power, must be excellent to perfect. Claude G. Kaelin, 527 N. 9th St., Buhl, Idaho.

WANT—VERY GOOD OR BETTER WINCHESTER 75 Sporter with Lyman 57E peep. Harry Ponder, Jr., Walnut Ridge, Arkansas.

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WANTED—16 OR 20 DOUBLE, WINCHESTER 21 or Parker preferred, improved cylinder and modified. Fred Thornton, 213 Summit St., Montgomery, Alabama.

WANTED—WINCHESTER 75 TARGET RIFLE. Must be excellent to perfect. Pay cash or trade 8 boxes factory fresh .257 caliber ammunition, balance cash. Give full particulars first letter. Will answer all. Member. W. C. Straughan, P.O. Box 1354, Wilmington, N. C.

WANTED—EXCELLENT UNALTERED WINchester 70 or Mauser action, 300 mag. or .30-'06. G. A. Conroy, 2501 Market St., Jacksonville, Florida.

WANTED—LATE MODEL 52 STANDARD. R. J. Green, Box 920, LaGrande, Oregon.

WANTED—MAGAZINE FOR AUSTRIAN O'WA automatic pistol. Copies of Arms & Man magazine before 1920. Arthur Leidesdorf, Elberon, New Jersey.

WANTED—A FINE FARROW TARGET RIFLE in excellent condition. Also a few boxes of 219 Zipper cartridges. M. C. Clark, 169 N. La Peer Drive, Beverly Hills, California.

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WANT—O&U 12-GAUGE. CASH OR TRADE excellent French 8x binoculars. Very good Stevens off-hand .22, holster, $17.50. Peterson, 1616 North 15th, La Fayette, Indiana.

WANT—100 OR MORE NEW PRIMED .250-3000 cases. Prefer Winchester. Will pay any reasonable price. Harold Tarter, Burney, California.

WANTED—WILL PAY GOOD PRICES FOR WINchester Super speed 87 gr. pointed expanding factory ammunition for 257. Also factory Super speed 22 high power. Will trade 250-3000, 270 or Weaver 440 with Lee dot. Dr. Ivan Dickson, Yorkville, Illinois.

WANTED—DEER RIFLE, PREFER M70, ANY appropriate caliber. G. W. Fuller, 3064 California St., Huntington Park, California.

WANTED—FACTORY BUILT .22 SHOTGUN FOR miniature skeet, good or better. Ray Augspurger, Winchester, Indiana.

WANTED—ISSUE KRAG, GOOD OR BETTER, at reasonable price. William C. Bramhall, 216 East 27th Street, Vancouver, Washington.

WANTED—S&W-K.22, .22 COLT OMT, WOODSman, .22 ammunition. H. R. Anderson, 1 Center St., Waterloo, New York.

WANTED—STANDARD OR SUPER WINCHESter 70, '06, excellent or better condition. Must have some ammunition. Boyd O. Allen, P.O. Box 446, Tracy, California.

WANTED—BARREL ONLY, 28, FULL, RIBBED, excellent, American Browning 20. Joseph E. Heard, M.D., 1130 Louisiana Avenue, Shreveport, Louisiana.

WANTED — REMINGTON ROLLING BLOCK pistol 50 caliber or any conversion, in any condition, also 35 caliber Remington rifle barrel, good inside, also Weaver 29S. R. B. Wilson, Delta, Colorado.

WANTED—NO TRADE. 410-3" ITHACA OR Smith double, good or better, ejector preferred, inspection privilege. F. H. Wildes, Box 191, Fallon, Nevada.

WANTED—M70, 30-06, REMINGTON 37, REMington Automatic 12, Noske, Alaskan or Lyman scope, 22 long rifle cartridges, 30-06 reloading tools. Glenn Wilder, Chardon, Ohio.

WANTED—.22 LR CARTRIDGES. BENJAMIN Air Pistol .22 or .177. Describe condition. All replies answered. Lt. Shilkret, Phillipsburg, Ohio.

WANTED—WILL PAY CASH FOR PENN Squidder Reel, 22-38 conversion unit, candid camera, 357 Smith and Wesson, all must be in perfect condition. R. Redmond, 660 Surf Road, Ocean City, New Jersey.

WANTED—38-40, 44-40 or 30-30 RIFLE. WINchester Marlin or Remington with cartridges. H. H. Ott, Gresham, Oregon.

WANTED—PAY GOOD CASH PRICE OR SWAP bullets for Enfield, Mauser actions, and large rifle primers. Charles J. Myers, Gunsmith, Bluffton, Indiana.

WANTED—SINGLE SHOT FOR SMALL BOY, prefer favorite, also cheap scope in Lyman standard mounts, must be very good. R. Miller, 607 Kellogg, Ann Arbor, Michigan.

WANTED—ZEISS RIFLE SCOPE, MODEL 53 Winchester 44-40, Krag action, Colt Frontier, Model 20 Savage. Give details and price. John F. Lamb, 949 No. Madison Ave., Pasadena 6, California.

WANTED—44 SPECIAL SINGLE ACTION OR Bisley Model, also need 41 long Colt's and 38 Automatic Hi-speed cartridges. Will trade guns and cartridges. A. Moore Harvey, Radford, Virginia.

WANTED—REMINGTON 12-A, PERFECT MEchanically, bore excellent to perfect. Norman M. Hill, Box 27, Jacksonville, Florida.

WANTED—NEW .22 HI-POWER BARREL FOR 99 Savage takedown, swap, good 44-40 S&W, 100 shells, or good Remington 10, 80 shells, for poor Remington Model 8, any caliber. Paul Hartman, Ennis, Mont.

WANTED—KODAK F4.5 BANTAM CAMERA, and Ideal powder measure. Paul Dehner, Burlington, Iowa.

WANTED—COMPLETE ENFIELD ACTION IN very good condition. Bert Dickinson, 710 Bryce Dr., Oildale, California.

WANTED—.22 AUTOMATIC PISTOL. EXCELlent to perfect, also cartridges for same. Bill Clark, 1119—8th Street North, Fargo, No. Dakota.

WANTED—M70, .270, M70 HORNET. EXCELlent. E. Brust, 518 No. 11th Avenue, Melrose Park, Illinois.

WANTED—ELECTRIC MOTORS. BALL BEARing, 1/8, 1/6, 1/4, 1/3 h.p., or what have you? Must be good plus. L. M. Bardin, Box 175, Minden, La.

WANTED—SHAKESPEARE MARHOFF, PRESIdent, Super Reel, Pflueger Summit, or Supreme in excellent condition. D. L. Bechtel, 4525 Pershing, Fort Worth 7, Texas.

WANTED—JAPANESE MODEL 14 AUTOMATIC pistol. Identify by horizontally grooved wooden grips. Foreign military automatic pistols for a collection. Lt. W. G. Ogden, Rt. #1, Oak Harbor, Ohio.

WANTED—54 OR 70 HORNET. SCOPE. REloading tools & components for Hornet and .270. Philip Gardner, 5611 Carlton Way, Los Angeles 28, California.

WANTED—EMPTY 22 COPPER SHELLS. WILL pay 5¢ per hundred, also want Ideal powder measure No. 5. Max Fowler, Frankfort, Indiana.

WILL BUY ENTIRE COLLECTIONS OF antique or modern guns. All transactions confidential. S. Doppelt, 363 Shepard Rd., Mansfield, Ohio. Fed. Lic. Firearms Dealer. 8-44

WANTED—COLT 45 ARMY AUTOMATIC, price must be reasonable. State serial number and condition. Lt. Richard Maxant, 28 Washington St., Ayer, Mass.

WANTED—.45 SERVICE ACE WITH .45 BARrel and slide, also extra magazines, .22, for Service Ace, also 37mm. gun for use of 1st Battalion Georgia State Guard. Also Browning Machine gun belts, new condition. Lt. Col. Mark A. Cooper, Box 68, Rome, Georgia.

WANTED—LEICA III B, F:2 SUMMITAR AND E-R case in perfect condition in trade for $400.00 shooting, gunsmithing, camera equipment consisting 52 HB, match ammunition, Super-Targetspot, B&L drawtube, Pacific tool, etc. Details, pictures if you have what I want. Satisfaction guaranteed by N.R.A. Life Member. Telegraph Augusta, Colonel Tyler Walker, D. C. Station Hospital, Camp Gordon, Georgia.

WANTED—WINCHESTER 52 LATE MODEL, also scope. Write: Gary Baumgardner, 624 No. State, Tacoma, Washington.

WANTED—$125.00 FOR THE BEST 2R. VARminter, 218, or Hornet outfit on Enfield, 70, or Mauser action, components, tools, 440 Weaver, also 69A, 74 or 75 Winchester. H. Likes, Northridge, California.

WANTED—LATE MODEL OUTBOARD MOtors up to the largest size. Give complete information and price in first letter. George N. Lathrop, Bristol, Vermont.

WANTED—WINCHESTER M70 HORNET, ALSO Model 42-410 shotgun. Wilbur Martin, 3379 Santa Ana, Huntington Park, California.

WANTED—NATIONAL MATCH SPRINGFIELD high number excellent to perfect unaltered, examination privileges. Member. Bernt Johnson, 1211 Avant, San Antonio, Texas.

WANTED—30 CALIBER BULLETS AND LARGE primers, describe and quote. Charles N. Cox, 919 Prince St., Alexandria, Virginia.

WANTED—MODEL 70-300 MAGNUM 30-06 OR 270, with or without scope guncrank condition. Sell 22 Officers' Model 6", excellent $65.00. Melton R. Rogers, Box 185, Bellingham, Washington.

WANTED—TARGET MODEL .270 WINCHESter, excellent to perfect. Phil Fine, 4103 Liberty Heights, Baltimore 7, Maryland.

WANTED—30-06 RIFLE MUST BE VERY GOOD or better, also want barrel for Springfield will pay fair price and answer all letters. Walter E. Midkiff, 535 W. 54th St., Los Angeles 37, California.

WANTED—87 TO 100 GR. 25 CALIBER JACKeted bullets, Lyman No. 103 tang peep sight for Winchester S.S. single shot actions or rifles. Feb. 1929 American Rifleman. Woodrow Hoover, Canal Winchester, Ohio.

WANTED—30-06 SPRINGFIELD OR ENFIELD as issued, also bayonets. Robert Abels, 860 Lexington Avenue, New York 21, N. Y. 1-45

WANTED—WINCHESTER 70 OR REMINGTON 720, caliber .30-'06. Must be perfect or excellent with scope sights. Leslie Zadany, R. 1, West Willington, Connecticut.

WANTED—M81 REMINGTON AUTOMATIC .30 caliber, M70 Winchester .30-'06. M94 .30-30 Winchester carbine with ammunition. Colt Woodsman, 6½" barrel. All excellent to perfect. Henry Adolphi, 77D McNeal, Bremerton, Washington.

SAILOR WILL BUY .45 AUTOMATIC. JOHN Nolan, Seaman, U.S.C.G. Cutter 80005, c/o Bergenpoint P. O., Bayonne, N. J.

WANTED—ONE COLT OFFICERS' MODEL heavy barrel .38, excellent or better. M. Terzenbach, 11916 Oklahoma, Hollydale, California.

WANTED—ARGUS SPOTTING SCOPE, FULL particulars first letter. Nathan Bucholtz, 5823½ Sunset Blvd., Hollywood 28, California.

WANTED—357 S&W MAGNUM, MUST BE EXcellent condition or better. Prefer 6 or 6½ inch barrel. Jack Donihoo, 712 Grand Prairie Road, Grand Prairie, Texas.

WANTED—M70, .30-'06, TARGET OR BULL, targetspot or targetspot, Jr., 6X, excellent, SELL—Standard M70, .30-'06, Weaver 330 Post, Redfield Jr., excellent, $165.00. Captain Leonard Horner, Ft. Worth, A.A.F., Texas.

WANT—AIRPISTOL .22 OR .177, VERY GOOD or better. Arnold Hyman, 645 Ocean Avenue, Brooklyn, N. Y.

PARATROOP OFFICER GOING OVERSEAS wants .38 Colt New Police ammunition for auxiliary weapon. Will trade 500 rounds .22 for 100 rounds .38 or pay cash. Member. Lt. C. L. McClelland, Hq. 3rd Bn., 1st P.T.R., Ft. Benning, Georgia.

WANTED—WINCHESTER M63, M75 SPORTER, M70 Hornet. 20-gauge Remington Sportsman or Ithaca Featherweight. 22-410 O&U, prefer Marlin, 4½" Woodsman. Bob Payne, Utica Road, Utica, New York.

WANTED—300 OR 250 SAVAGE. REASONABLE, must be very good, also 270 or 257 Winchester. Willard H. Campbell, Campbell Hall, N. Y.

WANTED—KRAG, ENFIELD OR SPRINGFIELD, issue or sporter, new .30-'06 unprimed brass. E. L. Rogers, Harvard St., Wenatchee, Washington.

WANTED—30 CALIBER JACKETED BULLETS 110 to 220 grains. Large primer pocket reamer, muzzle resizers for Ideal No. 3 tool for .38 Special, .38-55, .45-70. Mould for 405 or 500 grain .45-70. Jack Jenkins, 206 S. Wilton, Los Angeles 4, California.

WANTED—38 RIMFIRE RIFLE TO USE UP OLD ammunition. Dewey Studio, Dewey, Oklahoma.

WANTED—SOMEONE TO RELOAD SAVAGE .22 Hi-Power ammunition. S. P. Schnell, Dickinson, N. Dakota.

WANTED—LIGHTWEIGHT .45-70 MODEL 86 rifle. Also Colt revolver with target sights, using regular 45 Colt ammunition. State condition in and out with price. Eugene Bielefeld, New Knoxville, Ohio.

WANTED — EMPTY 12-GAUGE SHOTGUN shells, Western or Winchester low bases. Harry Sapp, Macomb, Illinois.

COLLECTOR WANTS DUELLING PISTOLS, PERcussion, Flintlock. Cased, single pieces. Bladed weapons. SELL, TRADE, percussion set. H. Lydick, Moundsville, West Virginia.

WANTED—WINCHESTER 70 SWIFT, .218 BEE ammunition, Winchester 116, 120 primers, 41 gr. Super-Lovell, 55 gr. Sisk bullets. TRADE OR SELL —6.5 Mannlicher-Schoenauer carbine, 6X Karl Kahles hunting scope, factory quick detachable mount, case, shells, excellent in, good out, hand oiled stock, $200.00. TRADE—Pistol primers for rifle primers. M. E. Gladson, 1436 West 91st St., Los Angeles 44, California.

WANTED—LYMAN ALASKAN ALL-WEATHER scope with tapered post or post and horizontal reticule with or without Stith mounts for 99 Savage. Joe Madaffer, Navarre, Ohio.

WANTED—SAVAGE MODEL 99 EG 250-3.000. State price and condition. Edward Marsh, 75 Queen St., Bristol, Connecticut.

WANT—25 CALIBER AUTOMATIC PISTOL CARtridges 50 to 1000, 32 caliber automatic pistol cartridges, 50 to 1000, 32 S&W shorts 50 to 2000, 38 S&W 50 to 2000, 38 Special 50 to 2000, 41 long center fire, 50 to 200, 41 short center fire, 50 to 200, 41 short rim fire, 50 to 200, small pistol primers, 10,000, large pistol primers, 5,000, 10,000 fired 32 long S&W cases, 5,000 fired 38 S&W cases, pay cash or trade 22 long rifle cartridges, 45 Colt, 38 Automatic. W. M. Perry, Member, Columbia, S. C.

WANTED—BULLETS 87G SP 250-3000 ALSO factory ammunition. S. Luke Pettit, Cartersville, Georgia.

WANT—.300 SAVAGE 99R, BARREL, ACTION, v.g. to perfect, stock immaterial, explain fully, state price. Ronald Shultz, 6333-111th Place, Kirkland, Washington.

WANTED—WINCHESTER 70 TARGET MODEL Swift, 8X or 10X Targetscope, Pacific tools and components for Swift. Winchester Model 12-12 Magnum or Ithaca 10 Magnum, good price if excellent or better, inspection privilege, all correspondence answered. H. S. Rademacher, Tieton, Washington.

WANTED—RIFLE, CALIBER 22 WITH AMMUnition, also automatic caliber 25, state price. Jesus E. Andrade, P.O. Box 363, El Paso, Texas.

WANT—EXCELLENT WINCHESTER LOW-SIDE single shot with ammunition and tools. Glenn Bayley, High School, Hayward, California.

ANYWHERE IN U.S.—WILL PROMPTLY BUY antique firearms. Fair prices, minimum effort for seller. James Serven (Life Member), Santa Ana, California. tf

WANTED—FOR CASH ANY QUANTITY 22 CALIber ammunition, all type 30-06 and 12 gauge shotgun shells, any distance, needed for defense purpose, write at once. Adrien Grenier, North Grosvenordale, Conn.

WANTED RELOADING OUTFIT COMPLETE 30-06, prefer Pacific or Mepos, or other bench type, please, please, make it clear, what you offer, condition, and price. Need two cavity mould, 150 to 180. The more equipment the better, need a reasonably priced Springfield D.C.M. also small pocket revolver, with ammunition. Kenneth Pool, 2706 West 78th St., Inglewood, California.

WANTED—AN OLD REMINGTON-LEE 30-40 for experimental rebuilding, action alone or complete rifle, barrel and stock condition immaterial, must be reasonable. C. W. Methfessel, 23 Columbus Ave., Northampton, Mass.

WANTED—EXCELLENT BAMBOO SURF CASTing rod, give details first letter. Ralph T. Rowles, Jones & Laughlin Steel, 3rd & Ross, Pittsburgh, Penna.

WANTED—A 3½" DRAW TUBE TELESCOPE, will buy with objective between 3" to 4". Dr. F. N. Solsem, Spicer, Minnesota.

WANTED—CASH FOR 35 REMINGTON PUMP or automatic or Winchester M71, 348, very good or better. For sale or trade—Hunter Special 16-28 ex. in, v.g. out. Charles Collins, Redwood Falls, Minn.

WANTED FOR PERSONAL USE—SPANISH Mauser (7mm.) No. 3 long spring traps, any brand No. 1½, 2½ Newhouse. D.C.M. Sporter stock, few 250-3000 sporting ammunition, all good or better, reasonable. D. McFadden, 201 West Eklund, Hoquiam, Washington.

WANTED—CARTRIDGES OF THE FOLLOWING calibers, 6.5mm. Mannlicher, 8mm. Mannlicher, 7.65 mm. Luger. If possible, of American manufacture, please write, stating quantity available and price. Dr. Jerome Leadley, 447 Genesee St., Rochester 11, N. Y.

WANTED—SAVAGE 30-30 LEVER ACTION AT reasonable price, describe condition. Joseph Temple, 1247 Coplin Avenue, Detroit 15, Michigan.

WANTED—WINCHESTER HI-SIDE ACTION, .38 Special revolver. Cpl. Cedric Maltpress, Co. "C" 1886 Engr. Avn. Bn. Geiger Field, Washington.

WANTED—WINCHESTER MODEL 61, OCTAGON barrel 22 short rifle, also other 22 repeaters and automatic. Claude Shuff, 620 Franklin St., Johnstown, Penna.

WANTED—25-20 SS OR 2 R CASES, SMALL rifle primers NMNC 50 and 55 gr. Sisk .22 bullets, 25 and 30 caliber bullets. Trade some .270 bullets. W. E. Long, 637 Carroll St., Akron 4, Ohio.

WANTED—30 LUGER AND AMMUNITION 22 L.R., 22 Hornet, 30 Luger, and 3" 410 shells, member. Frank Hagata, Susanville, California.

WANTED—WINCHESTER 70 OR SAVAGE 23D Hornet, very good to perfect, c.o.d. examination, ammunition. Rifleman 1940 to 1944. Harry Simpson, Jr., 2107 North 30th St., Kansas City, Kansas.

WANTED—4½ WOODSMAN, PERFECT. PREfer King reflector ramp front, micrometer rear sight, and Roper grips. State price wanted. Wilbur Davis, 401 Exchange Bldg., Orlando, Florida.

WANTED—RIFLE ACTIONS, PISTOLS, GUNsmithing tools, reloading tools, scopes, 52-75 Winchester rifles complete. Colt Single action Army models, any condition, cases in 250-3000 22 Varminter, 22 Hornet, 25-20, also Want Perfex 55 or Kodak 35 coupled. O. H. Harms, 615 8th Ave., South, Nampa, Idaho.

WANTED—.32, .38 S&W; 9MM. OR .30 MAUSER Automatic. Leslie VanAtta, Covington, Ohio.

WANTED—FOR CASH, KENTUCKY FLINTlock and percussion rifles, also military long arms. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-45

WANTED—9MM. LUGER CONVERTED TO 22 caliber or conversion unit to make my own Luger shoot 22 cartridges. Understand Stoeger imported this unit from Germany until the war. Wm. A. Brown, 30 Birch St., Marblehead, Mass.

WANTED—IDEAL LUBRICATOR & SIZING dies for 25, 32, 38, 45 & 30-06 calibers. 45-70-405 or 500 mould. Roman nosed Kentucky Flintlock. Colt peacemaker cylinder for 38-40 or 44-40. 41 caliber Remington Derringer. 375 Magnum ammunition. 25-20 Winchester 92, excellent. M. M. Stewart, 11527 Garfield Ave., Hollydale, California.

WANTED— SPRINGFIELD ACTION, 30-06; OR complete rifle, barrel immaterial, state number, price Trade Frankford Arsenal primers, #70, perfect, Winchester #108, NMNC, other primers. M. J. Albert, Cedar Falls, Iowa.

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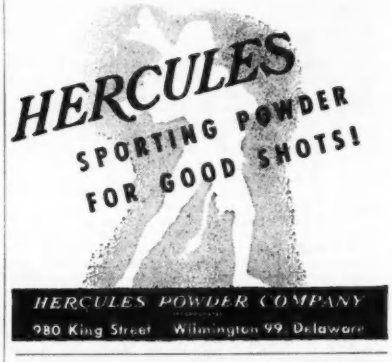

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WANTED — GUNS WANTED. REVOLVERS, rifles, shotguns, state model, condition, and best price first letter. No trades. Jim Craton's, Davenport, Iowa.

WANT—JOHNSON OR EVINRUDE OUTBOARD motor 1 1/10 to 5 H.P., very good to perfect, 1938 or later, please write all information regarding price, etc. Les Parker, Box 156, Tarzana, California.

WANTED—UNALTERED NO. 16 MAYNARD rifle with reloading tools and shells. Excellent or better. Geo. Weber, 823 Junior Terrace, Chicago 13, Illinois.

WANTED—M70 WINCHESTER SWIFT OR 257, also Colt Woodsman. Wilbur Martin, 3379 Santa Ana, Huntington Park, California.

WANTED—FOR CASH, AMMUNITION, ANY quantity, all calibers. Write: Public Sport Shops, Dept. R-73, 13 So. 16th St., Phila., Penna.

WANT—WINCHESTER HI-WALL S.S., ALSO Winchester M-63. Describe condition and price. H. H. Gaffin, 5548 Carrollton, Indianapolis 5, Indiana.

WANTED — SHARPS - BORCHARDT, WINCHESter high or low-wall actions or poor rifles wanted. Reasonable prices. Describe, including type Winchester mainspring. John Miller, Kingwood Park, Poughkeepsie, N. Y.

WANTED—SINGLE SHOT TARGET PISTOL, preferably S&W 10". Paul Pale, 343 Simon Long Bldg., Wilkes-Barre, Penna.

WANTED—BROKEN COLT PISTOLS, FOR parts, empty cases 30-30, 32-20, 30-40, 7.62 Russian, 45 Colt and others, Ideal #3 and #10 tools and extra chambers. E. Burns, 63 Uncatena Ave., Worcester 6, Mass.

WANTED—GUNS WANTED—REVOLVERS, rifles, shotguns. State model, caliber, condition and best cash price first letter, no trades. The Jaymac Co., Jackson, Michigan. tf

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FOR SALE—WINCHESTER MODEL 21, SKEET, 20-26 Skeet 1 and 2, selective single trigger, selective ejectors, beavertail fore-end, factory perfect. Money order, $170.00. Clyde Kennedy, 11768 Wyoming, Detroit 4, Michigan.

WANTED—MODEL 70 WINCHESTER IN .270 caliber .257 Roberts or 220 Swift with or without scope, new or perfect condition with factory ammunition. State price and give full description. J. Harding Anders, Norristown, R.D. 2, Penna.

ANNOUNCING NEW CATALOG #24 DESCRIBing over 1500 bargains 30¢. Modern and Antique firearms, accessories, war relics, binoculars. Brand new 45-70 Springfield $19.50. Plenty ammunition $2.50 box. 38 long $6.00 hundred. Many Frontiers, autos, C&B revolvers, muzzle loaders. Kentuckies, US Bolo knife, scabbard, $10.00. Springfield Service $60.00. Krag sporter $60.00. 22 Savage sporter $32.00. S&W K-22 $76.00. 38 Special M&P 5" $52.00. 32 20 x 6½" $54.00. 44 Special Triplelock 6½" $64.00. 45 Auto. and Colt 1917 $62.00. 25 Ortgies $30.00. 32 Savage $32.00. All good condition and better. John Smith, Rembler Ave., Runnemede, New Jersey.

SELL OR TRADE—REMINGTON MODEL 141 caliber .35 with 12 boxes factory ammunition perfect condition, $130.00. Winchester Model 70 Hornet .440C Weaver scope Stith mounts, 5 boxes factory ammunition, very good, $135.00. WANT—Factory ammunition in .270, .257 Roberts, .220 Swift and .22 Hornet. J. Harding Anders, Norristown, R.D. 2, Penna.

FOR SALE—HORNET, SAVAGE 219 WITH 344 Weaver scope, 50 handloads, all excellent, $35.00. D. T. Rutledge, 138 N. Prince St., Lancaster, Penna.

ENFIELD TRIGGER GUARDS $2.00. MAGAzine boxes, $1.00, $9.00 dozen. Firing pins, $1.00. Springfield trigger guards, $3.50 complete with bottomplate, $4.50. Extractors, firing-pins, safes, rods, sleeves, followers, $1.00, $9.00 dozen. New Enfield barrels Winchester make, $11.00. Military parts list free. Flaig's Hunters Lodge, Millvale, Penna.

FOR SALE—MUZZLE LOADING PERCUSSION rifles, shotguns, pistols. Rifles by famous makers, $30.00 up. Rifles for rebuilding, complete, but need work various calibers, $15.00. Pair fine Flintlock pistols, $100.00. List 10¢. Geo. Brullesauer, 3957a Castlemen 10, St. Louis, Missouri.

HI-STANDARD SHORT, 6¾" EXCELLENT, very good, 500 shorts, $50.00. Ideal .30-30 tool, mould attached, components, $14.00. 700, .38 Special nickel empties, $3.50. Stamp please. Harold Fenner, 115 California, Providence 5, Rhode Island. Life Member.

WANTED—IDEAL MICROMETER POWDER measure. Pay cash or trade ammunition. L. Corlis, 1330 State Street, Alton, Illinois.

FOR SALE—M99 TAKEDOWN, WEAVER 440C, B-mounts, 4 boxes shells, excellent, $150.00. G. F. Johnson, 718 South 30th, Birmingham, Alabama.

SELL OR TRADE—SAVAGE 720 AUTOMATIC 16x28 full, very good, $70.00. Winchester M12 slide 12x30 factory reconditioned, reblued, excellent, $60.00. L. C. Smith field double 20x26 modified, very good, $65.00. Savage 99R, 300, perfect, $80.00. Winchester 1907SL automatic 351, new barrel, factory reconditioned, reblued, perfect, $85.00. Savage 99H carbine 303 Savage, good, $55.00. Mauser .257 Roberts, Kimball barrel, double set trigger, receiver sight, very good, $85.00. Ortgies Pocket Model 32 ACP custom reblued, very good, $28.00. Colt Police Positive 32 PP 4-inch, blue, excellent, $40.00. S&W, M&P .32-20, 4-inch, blue, excellent, $45.00. Colt SAA .32-20, 7½ inch blue, excellent, $45.00. Colt Shooting Master .38 Special, 6 inch blue, perfect, $95.00. Many others. List. Stamp. Ed. Howe, Coopers Mills, Maine.

FOR SALE — CARTRIDGES RE COLLECTORS, single specimen, some boxed lots. List. Stamp. Ed. Howe, Coopers Mills, Maine.

WANTED—30-'06, .30-40, 45 C.A. AMMUNITION. State year, price. Flaig's Hunters Lodge, Millvale, Penna.

FOR SALE — PRIMED NATIONAL MATCH cases FA#70, 5¢. TRADE for following for books on guns, good camera, binoculars, Krag or Mauser actions: 1,000 Kleanbore 22LR; .30-40 and .30-06 hunting loads; 2,000 FA#70 primers. T. E. Hetland, 1805 Main St., Eau Claire, Wisconsin.

WANTED—8MM. 500 WATT PROJECTOR AND case with accessories. Bell Howell Filmo-Master preferred. Please give details first letter, all replies answered. W. Remund, 528 St. Clair Avenue, Jackson, Michigan.

WANTED—SPRINGFIELD ACTION OR REceiver, high number. TRADE—Very good .38-44 for Commercial .45 automatic. Harold Wing, 2818 E. Franklin, Richmond 23, Virginia.

FOR SALE—PLENTY OF 1903 SPRINGFIELD barrels, good, $3.75, fair, $2.75. Stripped receivers, $7.50. Heat treated, $9.50. Unfired new .45-70 Springfield rifles, fine guns, $16.50. Cartridges, $2.25 box. Set disassembling tools, 90¢. .38 Long Colt (corroded) $3.50 hundred. 56 Spencer $3.50 hundred. 50 Remington pistol $2.00 box. Krag Bayonet $3.50. Bolo type with scabbard, $7.00. Complete 1903 actions and barrels, excellent in, heat treated, $42.50. M. T. Woodsman, excellent, $80.00. Will buy military pieces, antique guns, relics, what have you? R. Reppert, R. D. #4, Norristown, Penna.

FOR SALE—SAVAGE 99G, .250-3000, FACTORY refinished and reconditioned, looks like new, $65.00. 2R Lo-Wall, 52 barrel chambered by Butler, 75 handloads, 25 empties, die, excellent, $55.00. Bullets and primers extra. Winchester 8x scope, double ½" dot reticules, excellent, $28.50. (Purchaser of 2R has first option). Browning automatic, 16-gauge, 3-shot, 28 full, recoil pad, excellent, $80.00. Barrel only, 16-gauge Browning, solid raised rib, 27 full, perfect, $35.00. Iver Johnson 20-gauge double, excellent in and some blue wear out, $29.50. H&R 20-gauge, 5-shot bolt action, tubular magazine, excellent, $23.50. Luger, .30 caliber, 3⅝" barrel, perfect, unfired, $65.00. Another, excellent in and some blue wear out, $42.50. Ortgies .32 caliber, perfect, $30.00. H&R 32, 6-shot, blue, hammer, latest type, excellent, $16.50. S&W 32 Safety Hammerless, excellent mechanically, little nickel wear, $22.00. Lyman 5A, Lyman mounts, unused in factory carton, $45.00. 6x30 Army binoculars, very good, $39.50. 1½ inch objective attachment for Jr. Targetspot, $15.00. 3-HP 3 phase 220V General Electric motor, 1800 RPM, excellent running condition, $42.50. 1/6-HP Delco 110 AC 60 cycle, double shaft, capacitator motor, new, list, $19.95. ¼-HP Westinghouse 32V DC, excellent running condition, $12.50. Greenfield Tap & Die set #35½, ¼ to ¾ in sixteenths, factory grease, list, $30.75. Tok-Fone Intercommunicator, 10 station capacity Master unit, 1 sub-station, brand new, $59.50. Electric phone pick-up and motor in portable carrying case, new, $34.95. Firestone 8 tube push-button auto radio case, new, $39.50. Bishop's blank stock and forearm for Stevens 44½, unused, cost, $6.50. Ideal #5 and #6 powder measures, $8.00 and $10.00. Regulation punching bag, leather, new, $5.50. Additional items: Hi-Side 2R, 54 barrel, Stevens 44½, .32-40 an excellent outfit for relining, 29S scope, W52 barrel only, Zeiss 8x24 binoculars, 8x30 B&L CF binoculars, etc., Connie Malinowski, South Deerfield, Massachusetts.

TRADE—8x30 B&L CF, EXCELLENT, FOR 7x35. Connie Malinowski, South Deerfield, Massachusetts.

FOR SALE—AMMUNITION PER 100, LATE date 30-'06, $7.50. 06-18, $4.00. 45 C.A. 1942, $6.00. 25-35 Super X, $7.00. 43 Egyptian $5.00. 7.65 Mauser, $8.00. New Enfield barrels Winchester make, $10.00. Military rifle parts list free. Flaig's Hunters Lodge, Millvale, Penna.

FOR SALE—SHOTGUNS, RIFLES, PISTOLS, Automatic pumps, doubles, singles, all gauges and shells. Rifles—Winchester, Marlins, Savage, Krags, Sharps, Ballards and Remingtons. Pistols—Colts, New Service, Official Police, Single Actions. Many others. List 10¢. Geo. Brullesauer, 3957a Castleman 10, St. Louis, Missouri.

PENNSYLVANIA BLACK WALNUT INLETTED stocks, $5.00 up; blanks for shotguns $1.00 up. Fore-end pieces desired sizes, 50¢ up. Flaig's Hunters Lodge, Millvale, Penna.

REMINGTON EXPRESS .25 CALIBER RIFLE, 10 boxes ammunition 48 Lyman, perfect, new 330 Weaver, Special mounts, Q.D., swivels sling, $100.00. Winchester 24, 12-30, very good, $35.00. Another 28-16, $33.00. Several new 1" Unertl scopes 6x8x10, $46.50 with mounts. Also small game scopes, $34.65. Flaig's Hunters Lodge, Millvale, Penna.

WANTED—TWO WINCHESTER M94 ACTIONS or complete rifle. Wood and barrel immaterial. Ed. Howe, Coopers Mills, Maine.

FOR SALE—HENSOLDT BINOCULARS, MARINE Dialyt, 8 x 40, case, straps, excellent, $165.00. First money order. O. N. Gregg, 4241 Troost, Kansas City, Missouri.

FOR SALE—COLT SUPER .38 AUTOMATIC, late model, perfect except minute scratch on receiver, gold front sight, honed action, holster, 6 boxes shells—2 are hollow points, $110.00. Colt .25 automatic, perfect, with fine hand sewn lined holster, 1 box shells, $40.00. Browning .25 automatic, excellent, 25 shells, $25.00. Ortgies .32 automatic good plus, holster, 2 boxes shells, $40.00. Ortgies .25 automatic good plus, 25 shells, $22.50. Colt S.A. 41 caliber, 4¾" barrel, good plus, 4 boxes shells, $45.00. Colt S.A. .32-20, 4¾" barrel, good plus, 1 box shells, $40.00. Both guns very tight. 4 boxes (50 each) 7.65mm Mannlicher automatic pistol shells, $5.50 per box. First money orders. O. N. Gregg, 4241 Troost, Kansas City, Missouri.

GEBBY VARMINTER, FIRED LESS THAN 80 rounds, very accurate, beautifully stocked, Mauser action $145.00. Fecker 1½" Target scope, $75.00. Want Model 70 Swift or 30-06. Clarence Jordan, 110 No. Hancock, Madison, Wisconsin.

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WANT—95 MODEL .30-40 OR .30-'06 CARBINE. Also 7 or 8 mm German Mauser. Must be reasonable. Harry Raihl, Midwest, Wyoming.

FOR SALE—257 WINCHESTER, M70, EXCELlent, sling, blocks, 100 factory cartridges, $110.00, components extra. 30-40 Winchester, M95, excellent in, good out, 85 factory and handloads, $70.00. .22 Varminter, Sukalle medium WT. 26", beautiful Bishop checkered target stock, excellent, very accurate, sling, blocks, 500 components Sisk, 60 new primed cases, $145.00. Savage M19 target, perfect, 1000 LR, $55.00, Malcolm #1, 10X, excellent, $35.00. Empties fired once, $4.00 per 100: 360, 270W; 120 Swift; 205, 30-30. A. French, 4603 Westminster, St. Louis, Mo.

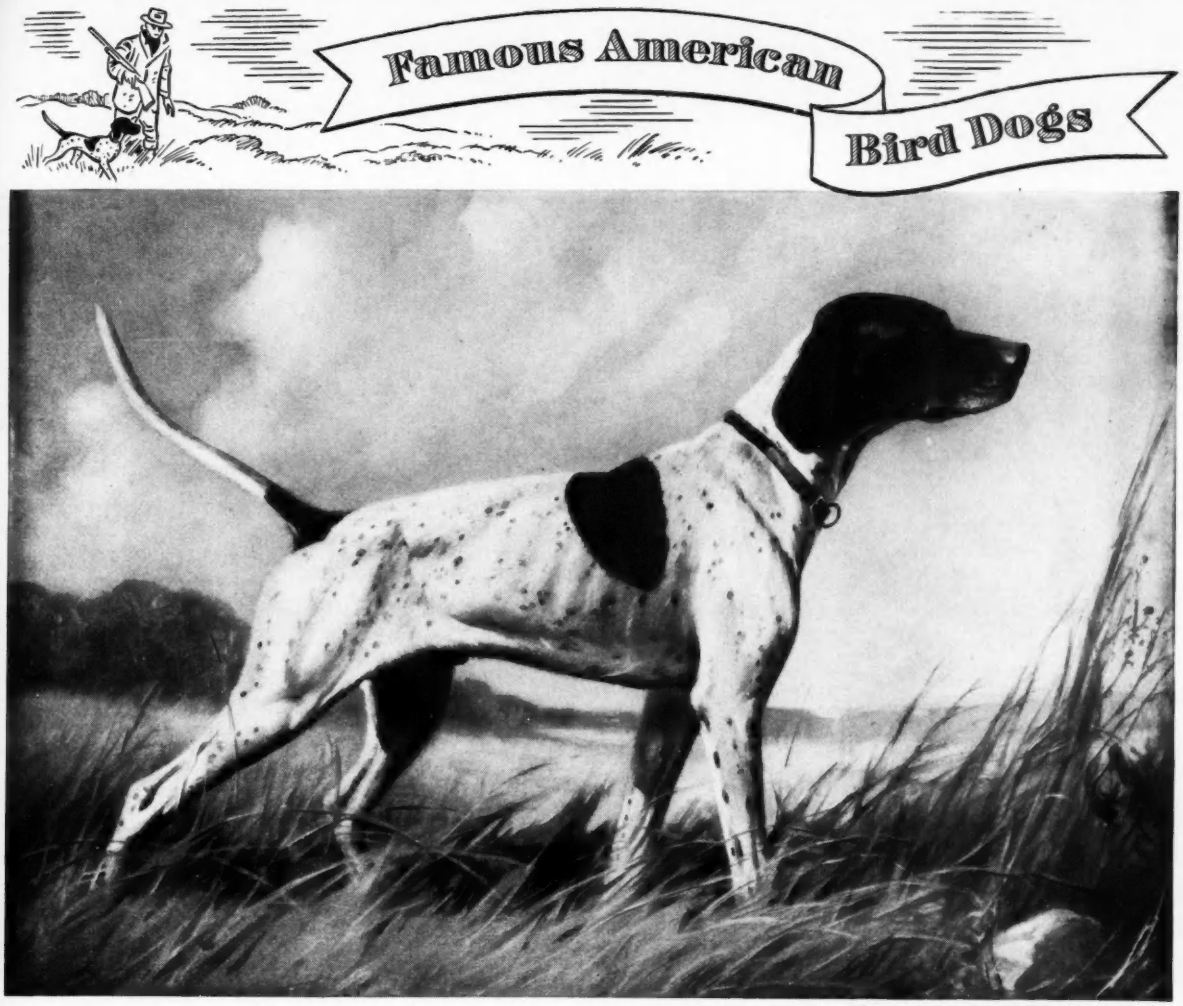
WANTED—SPRINGFIELD, MAUSER OR ENfield action; K-Hornet or 2-R rifle, 8X, 10X target scope, reasonable. French, 4603 Westminster, St. Louis, Mo.

TRADE—EXCELLENT REMINGTON FOURsome, $25.00, new 330S Weaver, $30.00, new 31, Remington, 20x26, $63.00, 200, Krag empties, $10.00. Want accurate hard hitting Air rifle, excellent. T. R. Conrad, Indiana, Penna.

1 CUSTOM 98 MAUSER 7MM. 24" RAMP FRONT receiver rear p.g. stock, very good, $70.00, ammunition 10¢ each, c.o.d. inspection allowed. Frank Riddle, 214 Imperial St., Oil City, Penna.

WANTED—TWELVE GAUGE DOUBLE GUN, single trigger, excellent or better. Prefer Marlin over-under. Arnold Benson, Watford City, North Dakota.

B&L 7X35 BINOCULARS, PACIFIC SCALES, #3 Hornet tool, will take 54 or 70 Hornet scope or tool for 218 Bee, all excellent. Description & prices on request. R. H. Johnson, 824 Wells Ave., N. W., Canton 3, Ohio.



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